

HARGRAY TELEPHONE CO., INC  
SOUTH CAROLINA  
ISSUED: October 8, 2010  
BY: Director Regulatory & Carrier Relations  
Hilton Head Island, South Carolina

EFFECTIVE: October 8, 2010

## **PRIVATE LINE SERVICES TARIFF FOR THE STATE OF SOUTH CAROLINA**

This Tariff contains regulations and rates applicable for the furnishing of Intrastate/IntraLATA Private Line Service by Hargray Telephone Company, Inc. within this State. This Tariff is on file with the Public Service Commission of South Carolina.

Communication services described in this Tariff are furnished through facilities provided by the Company for the transmission of intelligence by electrical impulse, principally by means of wire, radio, or a combination thereof.

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**PRIVATE LINE SERVICES TARIFF FOR THE STATE OF SOUTH CAROLINA****EXPLANATION OF SYMBOLS**

When changes are made in any tariff page, a revised page will be issued canceling the tariff page affected; such changes will be identified through the use of the following symbols:

(B)	To signify rates established under bond
(C)	To signify a changed regulation or tariff
(D)	To signify discontinued rate, regulation or text
(I)	To signify increase in rate
(M)	To signify a move from one page to another with no change to text, regulation or tariff
(N)	To signify new rate and/or new regulation, and/or new text
(O)	To signify obsoleted rate, regulation or text
(R)	To signify reduction in rate
(S)	To signify matter already appearing in another part of the tariff and repeated for clarification
(T)	To signify a change in text but no change in rate or regulation
(U)	To signify USOC added or changed only
(V)	To signify vintaged tariff

The preceding symbols will apply except where additional symbols are identified at the bottom of an individual page or at the beginning or end of a section or paragraph.

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## **B1. APPLICATION OF TARIFF**

### **B1.1 General**

- A.** This Tariff contains the regulations and rates applicable to all private line services furnished by Hargray Telephone Company, Inc., hereinafter referred to as the Company, and for private line services furnished by the Company in conjunction with another telephone company over facilities under the jurisdiction of the State of South Carolina.
- B.** This Tariff contemplates the securing of facilities and services of other telephone companies by the Company in order that the Company may furnish to the customer a private line service between specified locations.
- C.** The rates and regulations contained in this Tariff apply to the private line services over facilities furnished jointly by the Company and other telephone companies as if the services are furnished in their entirety by the Company except as provided in D. following.
- D.** In those cases where the rates and regulations of other telephone companies apply to the portion of the private line services furnished by such other telephone companies, the point of connection with the facilities of the Company is considered as a service point in determining the mileage and the rates applicable for the service furnished by the Company. In those cases where another telephone company furnishes a portion of the necessary facilities, and;
  - 1. Concurs in the rates and regulations of the Company, the rates and regulations for the total facilities are the same as those shown for the Company in this Tariff;
  - 2. Applies its own rates and regulations for its portion of the facilities, the rates and regulations for the total facilities are a combination of the rates and regulations of the two telephone companies.
- E.** This Tariff also applies to private line services furnished in connection with other services furnished under the Company's General Subscriber Service Tariff.
- F.** When an end user certifies that an interexchange carrier (IC) is providing an intrastate, interLATA private network switching function at its terminal location for the end user, said terminal location will be considered an end user premises for the purpose of applying the rates and regulations in this Tariff. Moreover, the private line facilities between the private network switching function and the end user's other premises may be ordered by and billed to either the end user or the IC.

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## **B2. REGULATIONS**

### **B2.1 Undertaking of the Company**

#### **B2.1.1 Scope**

- A. Private line service is the provision of Company facilities for communication between specified locations of customers, authorized users, or joint users.
- B. The Company does not undertake to transmit messages.

#### **B2.1.2 Limitations**

In case a shortage of facilities exists at any time either for temporary or protracted periods, the establishment of Exchange and Long Distance Message Telecommunications Service takes precedence over all other services.

#### **B2.1.3 Liability**

- A. The services furnished by the Company are subject to the terms, conditions and limitations herein specified and to such particular terms, conditions and limitations as are set forth in other sections of this Tariff applicable to the particular services.
- B. The liability of the Company for damages arising out of mistakes, omissions, interruptions, preemptions, delays or errors or defects in transmissions occurring in the course of furnishing service and not caused by the negligence of the customer, or of the Company in failing to maintain proper standards of maintenance and operating and to exercise reasonable supervision, shall in no event exceed an amount equivalent to the proportionate charge to the customer for the period of service during which such mistake, omission, interruption, preemption, delay, or error or defect in transmission occurs. The Company shall not be liable for damage arising out of mistakes, omissions, interruptions, preemptions, delays, errors or defects in transmission or other injury, including but not limited to injuries to persons or property from voltages or currents transmitted over the service of the Company, (1) caused by customer-provided equipment (except where a contributing cause is the malfunctioning of a Company-provided connecting arrangement, in which event the liability of the Company shall not exceed an amount equal to a proportional amount of the Company billing for the period of service during which such mistake, omission, interruption, preemption, delay, error, defect in transmission or injury occurs), and (2) not prevented by customer-provided equipment but which would have been prevented had Company-provided equipment been used.
- C. The Company shall be indemnified and saved harmless by the customer against:
  - 1. Claims for libel, slander and infringement of copyright arising from the material transmitted over services furnished by the Company;
  - 2. Claims for infringement of patents arising from, combining with, or using in connection with, services furnished by the Company, apparatus and systems of the customer; and
  - 3. All other claims arising out of any act or omission of the customer in connection with the services furnished by the Company.
- D. The Company is not liable for any act or omission of another telephone company or companies furnishing a portion of the service.
- E. The Company does not guarantee nor make any warranty with respect to equipment provided by it for use in an explosive atmosphere. The customer indemnifies and holds the Company harmless from any and all loss, claims, demands, suits or other action, or any liability whatsoever, whether suffered, made, instituted or asserted by the customer or by any other party or persons, for any personal injury to or death of any person or persons, and for any loss, damage or destruction of any property, whether owned by the customer or others, caused or claimed to have been caused directly or indirectly by the installation, operation, failure to operate, maintenance, removal, presence, condition, location or use of said equipment so provided.

The Company may require each customer to sign an agreement as a condition precedent to the provision of such equipment.



## B2. REGULATIONS

### B2.1 Undertaking of the Company (Cont'd)

#### B2.1.3 Liability (Cont'd)

- F. The Company is not liable for any defacement of or damage to the premises of a customer, authorized or joint user resulting from the attachment of the Company's instruments, apparatus and associated wiring on such premises or by the installation or removal thereof, when such defacement or damage is not the result of negligence of the Company.

G. Unauthorized Computer Intrusion

The Company's liability, if any, for its willful misconduct is not limited by this section of this Tariff. With respect to any other claim or suit by a subscriber, common carrier, reseller, or any other party for damages caused by, or associated with, any unauthorized computer intrusion, including but not limited to the input of damaging information such as a virus, time bomb, any unauthorized access, interference, alteration, destruction, theft of, or tampering with, a Company computer, switch, data, database, software, information, network or other similar system, the Company's liability, if any, shall not exceed an amount equal to the proportionate charge by the Company for the service for the period during which the service provided by the Company was affected or so utilized.

Each subscriber of the Company shall be responsible for providing appropriate security measures to protect the subscriber's computer, data, or telecommunications network.

H. Transmission of Data

Voice-grade lines are primarily conditioned to handle data speeds up to 9.6 kilobits per second (kbps). The Company makes no guarantee that voice-grade access lines and/or facilities are suitable for the transmission of data. However, in those cases where the transmission of data is attempted, the Company shall not be held liable for any damage, harm or loss of data caused by the subscriber using the Company's voice-grade telephone access lines and/or facilities for the transmission of data. The Company's liability shall be limited to errors or damages to the transmission of voice messages over these facilities, and the liability shall be limited to an amount equal to the proportionate amount of the Company's billing for the period of service during which the errors or damages occur.

The Company's liability for damages or errors caused during the transmission of data over any of the Company's data facilities shall be limited to an amount equal to the proportionate charge for the service for the period during which the service was affected.

I. Errors or Damages Caused by System Date Limitations

The Company's liability for errors or damages resulting from the inability of the Company's systems to process dates, such as the Year 2000, shall be limited to an amount equal to the proportionate amount of the Company's billing for the period of service during which the errors or damages occur.

J. Unauthorized Devices

The Company shall not be held liable or responsible for any damage or harm that may occur as the result of unauthorized devices or the failure of the Company to detect unauthorized devices on the subscriber's line.

#### B2.1.4 Provision of Services

- A. The Company will furnish, maintain and repair all facilities and equipment necessary for private line service to the demarcation point at a customer premises, except that, the customer, authorized user or joint user may provide his own terminal equipment or communications systems for use with such service as expressly authorized in 1. through 5. following, or as otherwise authorized in this Tariff.

1. When a private line channel is used for voice communications for the purpose of remote operation of mobile radiotelephone systems, it is contemplated that the customer, authorized user or joint user shall provide all station apparatus for such use.
2. When a customer, authorized user or joint user elects to provide his own communications system, it is contemplated that the customer, authorized user or joint user, except as provided in B2.6.3.A. following, shall provide all station apparatus and associated channels which are a part of the system and which are located on the same premises as the system.
3. When a private line channel is used for teletypewriter transmission, the teletypewriter equipment may be provided by the customer, authorized user or joint user on a given private line at a given premises, all such equipment must be provided by the Company or the customer, authorized user or joint user. Such equipment must operate at a line signaling speed not to exceed that specified for the channel furnished.

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## **B2. REGULATIONS**

### **B2.1 Undertaking of the Company (Cont'd)**

#### **B2.1.4 Provision of Services (Cont'd)**

**A.** (Cont'd)

4. When a private line channel is used for data transmission which requires terminal equipment (data sets), such data sets may be provided by the customer, authorized user or joint user; except that, the Company shall furnish all data sets located in Company central offices. Where the customer, authorized user or joint user elects to provide his own data set(s) on a given private line, it shall be the responsibility of the customer, authorized user or joint user to ensure the continuing compatibility of such data set(s) with the facilities furnished by the Company.
5. When a private line channel is used for transmission purposes other than voice and teletypewriter except as specified in 1., 2., 3. and 4. preceding, it is contemplated that the customer, authorized user or joint user will provide the station equipment for such other purposes.

**B.** The Service Installation Guarantee, as set forth in B2.4.13 following, is applicable to specified services offered in this Tariff. The Service Installation Guarantee is applied on a per circuit basis for Private Line services.

The following list identifies some of the individual Private Line services which are eligible for credit of nonrecurring charges under "Service Installation Guarantee" found in B2.4.13 following:

- Commercial Quality Video
- DS1 Channel Service
- DS1 ISDN Service<sup>1</sup>
- DS1 Service
- DDS Service
- Voice Grade Service (Series 2000)

Other services eligible for credit of nonrecurring charges under Service Installation Guarantee provisions are noted in their respective tariff sections.

The following service(s)/service elements are not eligible for such credit:

- Custom Network Service

## **B2. REGULATIONS**

### **B2.1 Undertaking of the Company (Cont'd)**

#### **B2.1.5 Special Construction, Equipment and Arrangements**

All rates and charges set forth in this Tariff provide for the furnishing of service where suitable facilities are available. Where special construction of channel facilities is necessary, special construction charges may apply as set forth in Section B5. of this Tariff.

#### **B2.1.6 Work Performed Outside Regular Working Hours**

The rates and charges specified in this Tariff contemplate that all installation, moves, changes or rearrangements of service be performed during regular working hours. Whenever a customer requests that such work be performed outside the Company's regular working hours or that such work once begun be interrupted, so that the Company incurs cost that would not otherwise have been incurred, the customer may be required to pay, in addition to the other rates and charges specified in this Tariff, the amount of additional costs incurred by the Company as a result of the customer's special requirements.

#### **B2.1.7 Application for Service**

- A. Any applicant for service may be required to sign an application form requesting the Company to furnish the service in accordance with rates, charges, rules and regulations as specified in this Tariff.
- B. The Company reserves the right to refuse service to any applicant who is found to be indebted to the Company for service previously furnished until satisfactory arrangements have been made for the payment of all such indebtedness, except that failure to pay for service under this Tariff shall not constitute sufficient cause for refusal of residence service or vice-versa. The Company may also refuse to furnish service to any applicant desiring to establish service for former customers of the Company who are indebted for previous service until satisfactory arrangements have been made for the payment of such indebtedness.
- C. If private line service is established and it is subsequently determined that either condition in B. preceding exists, the Company may suspend or disconnect such service until satisfactory arrangements have been made for the payment of the prior indebtedness.

#### **B2.1.8 Telecommunications Service Priority (TSP) System**

##### **A. Service Description**

- 1. The Telecommunications Service Priority (TSP) System is a structured coding scheme that prescribes the order in which National Security Emergency Preparedness (NSEP) telecommunications services are installed or restored. TSP System service is limited to qualifying state and local governments, the federal government, foreign governments and certain private industry telecommunications services. The TSP System was developed to support the requirements of the U. S. Government and applies only to NSEP telecommunications services to which the Company is able to apply priority treatment. It requires and authorizes priority action by the Company.
- 2. Conditions of emergency or crises that cause invocation of NSEP treatment can only be declared by authorized officials of the Federal Government or other officials (Federal or non-Federal) specified by the Manager - National Communications System (NCS) on behalf of the Executive Office of the President of the United States.

##### **B. Service Limitations**

- 1. Priority installation and/or restoration of NSEP telecommunications services shall be provided in accordance with Part 64.401, Appendix A, of the Federal Communications Commission's Rules and Regulations.  
In addition, TSP System service shall be provided in accordance with the guidelines set forth in "Telecommunications Service Priority (TSP) System for National Security Emergency Preparedness (NSEP) Service User Manual" (NCS manual 3-1-1 dated July 9, 1990) and "Telecommunications Service Priority (TSP) System for National Security Emergency Preparedness (NSEP) Service Vendor Handbook" (NCS manual 3-1-2 dated July 9, 1990).

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## B2. REGULATIONS

### B2.1 Undertaking of the Company (Cont'd)

#### B2.1.8 Telecommunications Service Priority (TSP) System (Cont'd)

##### B. Service Limitations (Cont'd)

2. The customer for the TSP System service must also be the same customer for the underlying Private Line Service with which it is associated.
3. The Company will arrange for the installation and/or restoration of TSP System service upon receipt of the proper certification as specified in B.1. preceding.
4. It is the responsibility of the TSP user to provide the TSP Authority Code to the Company with each service request.
5. When performing Priority Installation or Priority Restoration (repair) on TSP-designated services in compliance with the Rules and Regulations cited in B.1. preceding, the Company may not be in a position to notify the customer regarding additional labor charges if additional labor is required. The customer recognizes that quoting charges and obtaining permission to proceed with the installation or restoration of service may cause unnecessary delays and grants the Company the right to quote charges after the installation or restoration has been completed.

##### C. Rules and Regulations

1. Under certain conditions, it may be necessary to preempt one or more customer services with a lower (or no) restoration priority in order to install or restore NSEP telecommunications service(s). If preemption is necessary and if circumstances permit, the Company will make every reasonable effort to notify the preempted customer of the action to be taken. Credit allowance for service preemption will adhere to the provisions appearing in B2.4.8 of this Tariff.
2. No charge applies when a TSP designation is discontinued.
3. With the exception of credit information, a customer obtaining TSP System service acknowledges and consents to the provision of certain customer service details by the Company to the Federal Government to allow for the proper maintenance and administration of the TSP System. That information includes but is not necessarily limited to:
  - Confirmation of completed TSP service orders directly to the Manager, National Communications System (NCS);
  - Verification of installation and/or restoration priority level assignment(s) with the Manager, NCS;
  - Reconciliation of TSP service information with the Manager, NCS, or the customer (prime service vendor).

##### D. Definitions

###### National Communications System (NCS)

The NCS is established under the Executive Office of the President of the United States and is responsible for the day-to-day operations of the TSP System. This includes maintaining a twenty-four hour point-of-contact to handle emergency provisioning requests, assigning priority levels and Authorization Codes and maintaining data on TSP assignments.

###### National Security Emergency Preparedness (NSEP) Services

NSEP services are telecommunications services that are used to maintain a state of readiness or to respond to and manage any events or crises (local, national or international) which causes or could cause injury or harm to the population, damage to or loss of property, or degrade or threaten the NSEP posture of the United States.

###### Prime Vendor

The service vendor from whom the service user or its authorized agent orders service.

## B2. REGULATIONS

### B2.1 Undertaking of the Company (Cont'd)

#### B2.1.8 Telecommunications Service Priority (TSP) System (Cont'd)

##### D. Definitions (Cont'd)

###### Priority Installation (PI)

Provisioning, on a priority basis, of a new TSP service authorized as so urgent that it must be provided earlier than the Company's standard provisioning interval.

###### Priority Restoration (PR)

Restoration, on a priority basis, of an existing TSP service for which any interruption would have serious adverse impact on the supported NSEP function.

###### Subcontractor

The service vendor from whom the prime vendor obtains service for the completion of the prime vendor's end-to-end service.

###### Telecommunications Service Priority (TSP) System

TSP is a structured coding scheme that establishes the order in which NSEP services are to be installed or restored in the event of an emergency. The TSP System was developed to ensure priority treatment of the nation's most important telecommunications services.

###### TSP Authorization Code

A twelve character code that identifies an NSEP TSP service and denotes the order in which that service is to be provisioned (installed) and/or restored.

##### E. TSP Rate Categories

1. There are two basic rate categories which apply to TSP System service:
  - a. Priority Installation
  - b. Priority Restoration
  - Level Implementation
  - Level Change
  - Maintenance/Administration
2. Certain activities associated with the TSP System are included in the rate elements as follows:
  - a. Priority Installation includes order coordination.
  - b. Priority Restoration includes system development, verification and confirmation.

##### F. Rates and Charges

1. The following rates and charges are in addition to all other rates and charges that may be applicable for other services furnished in conjunction with TSP service:
  - a. Priority Installation (PI)<sup>1</sup>
    - (1) Per circuit

	Nonrecurring Charge	Monthly Rate	USOC
(a) Prime vendor	\$83.00	\$-	P1APX
(b) Subcontractor	83.00	-	P1ASX

**Note 1:** Regulations, rates and charges for Expedited (Emergency or Essential) service are the same as those set forth in B2.4.13.B. following for the private line services for which PI is required.

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## B2. REGULATIONS

### B2.1 Undertaking of the Company (Cont'd)

#### B2.1.8 Telecommunications Service Priority (TSP) System (Cont'd)

##### F. Rates and Charges (Cont'd)

##### 1. (Cont'd)

##### b. Priority Restoration (PR), per circuit

##### (1) Level Implementation

	Nonrecurring Charge	Monthly Rate	USOC
(a) Prime vendor	\$65.00	\$-	PR5PX
(b) Subcontractor	65.00	-	PR5SX
(2) Level Change			
(a) Prime vendor	65.00	-	PR8PX
(b) Subcontractor	65.00	-	PR8SX
(3) Maintenance/Administration			
(a) Prime vendor	-	3.75	PR9PX
(b) Subcontractor	-	3.75	PR9SX

#### B2.1.9 Application Testing

The Company makes no warranties with respect to the performance of certain services for any and all possible customer applications which may utilize these services. Upon requesting and receiving Public Service Commission approval that a specific service(s) may be utilized in application testing with customers, the Company will provide a limited amount of such service(s) subject to the conditions specified in A. and B. following. Such service is to be utilized without charge in an initial application test with a customer for no longer than 60 days from the date of installation. The purpose of an application test is to determine the appropriateness of that specific service(s) for that specific application prior to the customer placing a firm order for such service(s).

- A. The specific quantity of each service that may be utilized in an application test without charge is listed in the specific tariff for that service. Services to be provided in an application test are subject to the availability of facilities and equipment as determined by the Company.
- B. Services that are utilized in an application test with a customer may be provided without charge for an application test period of up to sixty days. Such service is provided at the discretion of the Company for the specific purpose of conducting an application test with a customer and is not intended to be utilized as a substitute for temporary service.
  1. Upon completion of the application test where the customer determines that the performance of the services utilized are unacceptable for the application, the application test service will be removed without charge to the customer.
  2. Upon completion of the application test where the customer determines that the performance of the services utilized are acceptable for the application and no changes to the test service configuration are required, the customer will be billed the appropriate nonrecurring charges for the test service and monthly billing will begin at that time.<sup>1</sup>
  3. Upon completion of the application test where the customer determines that the performance of the services utilized are acceptable for the application, however, the test service configuration must be changed, the customer shall be responsible for both the appropriate nonrecurring charges for the application test service plus all appropriate charges for the rearrangement of the service. Monthly billing shall begin for the rearranged service.<sup>1</sup>

**Note 1:** Any additional service requested to be installed upon completion of the application test shall be subject to standard tariff nonrecurring charges and rates as set forth in each service tariff.

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## B2. REGULATIONS

### B2.2 Use

#### B2.2.1 Users

A private line service may be used for one or more of the purposes specified in A. through H. following. When a private line service is arranged for joint use the joint user shall be permitted to use such service in the same manner as the customer as specified in A. through H. following.

- A. For the transmission of communications to or from the customer and relating directly to the customer's business. No one may be a customer for a private line service who does not have a communication requirement of his own for its use except as provided in C. and G. following, or except that a customer for a private line service jointly used in accordance with B103.1.5 of this Tariff may order the addition of service points to meet the communications requirements of a joint user of such service where such additional service points are required to extend the transmission of communications to or from the private line service for which the customer has a communications requirement of his own.
- B. For the transmission, to all stations simultaneously, of communications which relate directly to matters of common interest to the customer and the authorized users, when those connected to the service are all in the same general line of business.
- C. For the transmission of communications relating directly to the business of a subsidiary corporation over which the customer exercises control through the ownership of more than 50% of the voting stock.
- D. For the transmission of communications to or from any station on a service furnished to a Department or Agency of the United States Government when the head of the Department or Agency, or his duly authorized representative, notifies the Company in writing that the use is intended only for official United States Government business.
- E. Where the customer is an organized stock or commodity exchange, for the transmission of communications to or from an exchange member located on the floor of such exchange and relating directly to the business of the member.
- F. Where the use of the service relates to coordination or exchange of pooled electrical power, for the transmission of communications between any two or more stations of such service or similar services furnished to others who are parties to the coordinating or exchange arrangement.
- G. For the transmission of communications to, from, within and between air carriers, where the customer is an aeronautical communications company licensed under the Aviation Services rules of the Federal Communications Commission to operate stations in the aeronautical mobile and fixed services.
- H. For the transmission of communications to or from any station on a service furnished to the United States Postal Service for its use in the provision of its Facsimile Mail Service.

#### B2.2.2 Unlawful Purposes

The service is furnished subject to the condition that it will not be used for any unlawful purpose. Service will be discontinued if any law enforcement agency, acting within its apparent jurisdiction, advises in writing that such service or channels are being used in violation of law. The Company will refuse to furnish service when it has reasonable grounds to believe that such service will be used in violation of law.

#### B2.2.3 Use by Others

- A. Except as otherwise provided in this Tariff, private line service shall not be used for any purpose for which payment or other compensation shall be received by either the customer or any authorized user or joint user, or in the collection, transmission, or delivery of any communications for others, except as provided in B2.2.1.F. and G. preceding and in B2.2.3.B. following. This provision does not prohibit an arrangement between the customer and the authorized user or joint users to share the cost of the private line service. For the purpose of resale, Private Line 'Like' Services may be ordered out of the Company's Access Service Tariff.
- B. Private line services are furnished for use between two or more designated premises. The services are intended only for communications in which the customer or an authorized user has a direct interest except as provided in A. preceding or in C. following and that when the service is arranged for joint use, it may be used for the transmission of communications to or from the joint user and relating directly to the joint user's business.
- C. Most private line services specified in this Tariff are available for resale, except as otherwise noted in this Tariff, by Competitive Local Exchange Carriers (CLECs) certificated by the South Carolina Public Service Commission and such services are subject to the terms and conditions specified in the appropriate sections of this Tariff.

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## B2. REGULATIONS

### B2.2 Use (Cont'd)

#### B2.2.4 For Different Types of Transmission on a Simultaneous Basis

A private line may be used for different types of transmission simultaneously as provided in A. through C. and B2.2.5 following in accordance with the normal transmission characteristics of such a private line.

- A. When used for the remote operation of a mobile radiotelephone system, it may be used simultaneously for voice communication and to transmit more than one tone in sequence or simultaneously for control purposes.
- B. When used for control, metering or signaling purposes, it may be used to transmit more than one tone in sequence or simultaneously for such purposes.
- C. When used for alternate voice and data transmission and arranged for duplex operation, it may be used for voice transmission in one direction and data transmission in the other direction simultaneously.

#### B2.2.5 Channel Derivation

Additional channels may be created from a channel provided for private line service use as provided in A. and B. following:

- A. Customers, authorized users or joint users by use of their own equipment, and in accordance with the normal transmission characteristics of the private line, may create additional channels from channels furnished by the Company if the channels are furnished by the Company for, and if the channels thus created are used for (1) remote operation of mobile systems or (2) remote metering, supervisory control or signaling purposes;
- B. Customers, authorized users or joint users by use of their own equipment, and in accordance with the normal transmission characteristics of the grade of channel ordered may create additional channels for any type of communication, except as specified in A. preceding, by subdividing:
  - 1. A channel of a type number lower than 6000 or a Series 10001 channel.
  - 2. However, such channels may not be created from a private line utilizing Types 1101, 1001, 1102, 1002, or 1205.
- C. The use of equipment provided by customers, authorized users or joint users to create additional channels from channels furnished by the Company is subject to the regulations contained in B2.6.1 and B2.6.2.A. and B2.6.2.B. following.
- D. The Company makes no representation as to the suitability of the channels provided by it for such subdivision into additional channels by such equipment.



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### B2.2 Use (Cont'd)

#### B2.2.6 Connections Involving Private Line Services

- A. Connections involving private line service may be made as authorized in B2.1.4 preceding and B2.6 following.
- B. Connections may also be made whereby a private line customer with Fiber service or FiberRing service, in order to meet their communication needs, may connect to intraLATA services billed to another customer. These connections may be made via a Private Line Connection Arrangement whereby the Fiber service or FiberRing service customer is considered a Host Customer and the customer connecting to the Host Customer's service is considered a Connecting Customer. Such connections may be made when the Connecting Customer's intraLATA service that is being connected to the Host Customer's Fiber service or FiberRing service is for the use of the Host Customer in the conduct of his business. The Host Customer shall certify in writing, the name of the Connecting Customer and that such services that are being connected to his Fiber service or FiberRing service arrangement are for his use in the conduct of his business. Also, the Host Customer shall provide the Connecting Facility Assignment (CFA) associated with his Fiber service or FiberRing service that will be used to connect to the Connecting Customer's service.

Where the Host Customer subscribes to Fiber service or FiberRing service under Channel Services Payment Plan (CSPP) terms, the payment period for the connecting customer's directly associated rate elements must have a termination date that is equal to or less than that of the Host Customer's service. Where the Host Customer receives services under month-to-month payment terms, a Connecting Customer must also receive service under month-to-month payment terms. Disconnection of a Connecting Customer's service under CSPP terms creates no associated termination or payment obligations for the Host Customer. However, if the Host Customer plans to disconnect his Fiber service or FiberRing service under CSPP, he must notify the Connecting Customer of the planned/pending disconnect and the Connecting Customer is responsible for any remaining payment obligations for his part of the Private Line Connection Arrangement.

A one-time coordination charge will be assessed with the establishment of a Private Line Connection Arrangement. A Private Line Connection Arrangement Coordination Charge is required for each Host Customer/Connecting Customer arrangement. The Host Customer is responsible for payment of the Private Line Connection Arrangement Coordination Charge. In addition to the coordination charge, a separate nonrecurring charge will apply to process each service order on a Private Line Connection Arrangement account. The charge to process each order is called a Private Line Connecting Arrangement Order Charge and is paid by the Connecting Customer. Charges for coordination and service order processing are as follows:

	<b>Nonrecurring Charge USOC</b>	
Private Line Connecting Arrangement Coordination Charge - per arrangement	\$75.00	QCACC
Private Line Connecting Arrangement Order Charge - per service order	\$60.00	QCAOC

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## **B2. REGULATIONS**

### **B2.3 Obligations of the Customer**

#### **B2.3.1 Customer Responsibilities**

The customer shall be responsible for:

- A. Establishing his identity in the course of any communication as often as may be necessary.
- B. Establishing the identity of the person or persons with whom connection is made at the called station.
- C. Damage, loss or destruction of any of the Company's apparatus due to the negligence or willful act of the customer, authorized user or joint user and not due to ordinary wear and tear or to fire or other causes beyond the control of the customer, the customer shall be responsible for the cost of replacing the apparatus destroyed or for the cost of restoring the apparatus to its original condition.
- D. Reimbursing the Company for any loss through theft of the equipment or apparatus on the customer's premises.
- E. The provision of power, space and supporting structures required to operate the Company services installed on the premises of the customer, authorized user or joint user.
- F. The provision, installation and maintenance of sealed conduit with explosive-proof fittings between equipment in explosive atmospheres and points outside the hazardous area where connection may be made with regular facilities of the Company, and may be required to install and maintain equipment within the hazardous area if, in the opinion of the Company, injury or damage to Company employees or property might result from installation or maintenance by the Company.
- G. Obtaining permission for Company agents or employees to enter the premises of the customer, authorized user, or joint user at any reasonable hour for the purpose of installing, inspecting, repairing or, upon termination of the service, removing the facilities of the Company.
- H. Making Company facilities available periodically for maintenance purposes at a time agreeable to both the Company and the customer. No allowance will be made for the period during which the service is interrupted for such purposes.
- I. Where new or additional service is to be established at a location that has a hazardous electrical environment (e.g., an electric power substation or generating plant or a high voltage transmission tower, switching or distribution location), the customer must have high voltage isolation equipment installed at such premises whenever hazardous voltages of 1000V peak-asymmetrical or greater exist prior to the installation of ordered service. If the customer is aware that its premises are located where such hazardous voltages exist, the customer must notify Company of this fact at the time its order for service is placed.

The customer may elect to provide high voltage protection by means other than Company Special Assembly and if customer so elects, the customer shall submit its proposed design and equipment specifications to Company for approval prior to installation of Company service ordered. Where the customer has elected to select, install, use and maintain its own high voltage protection equipment, the customer does so with the understanding that it is solely responsible for any interruption of Company's service associated with its selection, installation, use or maintenance of the high voltage protection. Furthermore, the customer, its employees, agents, officers, directors, affiliates, successors and assigns agree to indemnify and hold Company, its subsidiaries, affiliates and their collective employees, agents, officers, and directors harmless from all loss, liabilities, costs and expenses, including attorneys' fees and all costs of defense and settlement, resulting from interruption of service, damage to property, claims, demands, suits or actions of any nature whatsoever arising from the failure of the high voltage protection selected, installed, used or maintained by the customer.

Company reserves the right to suspend any service it provides absent required high voltage protection until adequate protection is provided.

Standard intervals do not apply for service ordered where voltage isolation equipment is required and must be installed prior to installation of service ordered from Company.

#### **B2.3.2 Rearrangements and Repairs**

A customer, authorized user or joint user may not rearrange, disconnect, remove or attempt to repair or permit others to rearrange, disconnect, remove or attempt to repair any apparatus or wiring installed by the Company, except upon the written consent of the Company.

## B2. REGULATIONS

### B2.3 Obligations of the Customer (Cont'd)

#### B2.3.3 Transfer of Service

- A. At the Company's discretion, service previously furnished one subscriber may be assumed by a new subscriber if the new subscriber willingly assumes all existing financial responsibility for the account if such service has been cancelled or abandoned by the previous subscriber or if consent from the previous subscriber has been obtained and providing there is no lapse in the rendition of service. Upon the acceptance of the transfer of service by the Company, all future bills will be rendered to the new subscriber. Transfer of service charges<sup>1</sup> are appropriate as set forth in the General Customer Services Tariff.

Regulations concerning transfer of service between subscribers as stated in other sections of this Tariff also apply.

### B2.4 Payment Arrangements and Credit Allowances

#### B2.4.1 Payment of Charges and Deposits

- A. The customer is responsible for payment of all charges for services furnished the customer in accordance with the Company's regular billing and collection practice.
- B. Applicants for service who have no account with the Company or whose financial responsibility is not a matter of general knowledge, may be required to make an advance payment at the time an application for service is placed with the Company, equal to the service connection or installation charges, if applicable, and at least one month's charges for the service provided. In addition, where the furnishing of service involves an unusual investment, applicants may be required to make payment in advance of such portion of the estimated cost of the installation or construction as is to be borne by them. The amount of the advance payment is credited to the customer's account as applying to any indebtedness of the customer for the service furnished.
- C. The Company may, in order to safeguard its interests, require an applicant or customer to make such deposit as the Company deems suitable to be held by the Company as a guarantee of the payment of charges. The fact that a deposit has been made in no way relieves the applicant or customer from complying with the Company's regulations as to advance payments or the prompt payment of bills on presentation. At such time as the service is terminated the amount of the deposit is credited to the customer's account and any credit balance which may remain is refunded. At the option of the Company such a deposit may be refunded in all or part or credited to the customer at any time prior to the termination of the service. In case of a cash deposit, interest at the rate of three and one half percent per annum is paid for the period which the deposit is held by the Company.
- D. The Company reserves the right to increase the deposit requirement when in its judgment the conditions justify such action.
- E. A late payment charge of one and one-half percent (1 1/2%) applies to each subscriber's bill (including amounts billed in accordance with the Company's Billing and Collection Services section found in the Access Service Tariff) when the previous month's bill has not been paid in full prior to the next billing date. The one and one-half percent charge is applied to the total unpaid amount carried forward and is included in the total amount due on the subscriber's current bill.
- F. At the option of the customer, all nonrecurring charges associated with an order for service may be billed over a three month period subject to the following:
- 50 percent of the total nonrecurring charges will be billed in the first monthly billing period after the charges are incurred, and 25 percent of the total nonrecurring charges plus an Extended Billing Plan Charge will be billed in each of the following two monthly billing periods.
  - The Extended Billing Plan Charge is calculated at a rate of 1.0 percent per month or 12 percent annually, on the unbilled balance of the nonrecurring charges.
  - If the customer disconnects service before the expiration of the plan period, all unbilled charges plus the Extended Billing Plan Charge, if applicable, will be included in the final bill rendered.
  - If the customer fails to make any of the payments prior to the next billing date, these late payment charges as specified in E. preceding will apply.
- G. Effective October 1, 2001, a monthly recurring surcharge is applicable to each retail customer's total telecommunications bill in order to support South Carolina's Universal Service Fund. The surcharge will not be assessed on Lifeline, coin, wireless or resold accounts, or on unregulated services including, but not limited to, maintenance and inside wiring charges.

**Note 1:** Above charge does not apply if transfer of service or reconnection of left in facilities is made coincident with transfer or connection of left-in exchange service for which service charges apply.

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## **B2. REGULATIONS**

### **B2.4 Payment Arrangements and Credit Allowances (Cont'd)**

#### **B2.4.2 Cancellation for Cause**

- A. The Company by written notice to the customer may immediately discontinue the furnishing of private line service without incurring any liability upon:
  - 1. Non-payment of any sum due the Company, or,
  - 2. A violation of any condition governing the furnishing of service.

#### **B2.4.3 Minimum Service Period and Fractional Rates and Charges**

- A. The minimum period for which service is furnished is one month unless otherwise specified, except when the cost of special construction is such as to necessitate a longer contract period or where basic termination charges apply. The minimum period for FiberRing service is twelve months.
- B. When monthly rates are specified, the minimum charge will be for one month. If the period of use exceeds one month, the charges for the fractional part of a month following and consecutive with a full month will be a part of the monthly charge based on the proportion that the actual number of days service is furnished bears to 30 days.
- C. When rates involve a fraction of a cent, the fraction is carried throughout the computation of charge. When the computed charge includes a fraction of a cent, fractions of one-half cent or more are treated as one cent and fractions of less than one-half cent are disregarded.

#### **B2.4.4 Cancellation of Application for Service**

- A. Where the applicant cancels an application for service prior to the start of the special construction of facilities, no charge applies.
- B. Where special construction of facilities has been started prior to the cancellation and to the extent there is another requirement for the specially constructed facilities, no charge applies.
- C. Where special construction of facilities has been started prior to the cancellation, and there is no other requirement for the specially constructed facilities, a charge equal to the costs incurred in the special construction, less net salvage, applies, except that, where one or more, but not all, of the services involved in the special construction are cancelled, a charge equal to the charge for discontinuance of such services applies instead. Such charge is determined as set forth in Section B5. In determining the charge, each cancelled service is treated as discontinued as of the date on which it was to have been placed in service.
- D. Special construction of facilities for a customer is considered to have started when the Telephone Company incurs any expense in connection therewith or in preparation therefor which would not otherwise have been incurred, provided:
  - 1. The customer has advised the Company to proceed with the special construction, and
  - 2. The Company has advised the customer that, in accordance with his order, it is commencing the special construction.
- E. When equipment has been ordered for the specific needs of a customer and the installation thereof is unduly delayed by or at the request of the customer, appropriate charges apply for such equipment for the period of the delay.
- F. When a customer requests a change in location of all or a part of the facilities covered by his application for service or requests additions, rearrangements or modifications of his existing service and equipment prior to completion of the work involved, he is required to pay the difference between the total costs and expenses incurred by the Company in completing the work involved and that which would have been incurred had the final location of the facilities been specified initially.
- G. When a customer cancels an order for FiberRing service prior to the beginning of the selected service period, the customer will be liable for all installation costs incurred by the Company in provisioning the FiberRing service, as of the date of the order is cancelled by the customer. The charges billed to the customer will not exceed an amount equal to the minimum period for the service as set forth in B2.4.3 of this Tariff at the month-to-month rates set forth in Section B7. of this Tariff. Such charges will be billed in addition to and subsequent to the cancellation charges set forth in B. preceding.

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## **B2. REGULATIONS**

### **B2.4 Payment Arrangements and Credit Allowances (Cont'd)**

#### **B2.4.5 Change in Service Arrangements**

- A. When a change in service arrangement involves the continued use by the customer of services furnished by the Company, installation charges, as provided in this Tariff do not apply to the services continued in use. Continued use of the service is considered to exist where:
  - 1. The service arrangement or a portion of the service arrangement is reused on an existing service or to establish a new service for the same customer, or,
  - 2. The service arrangement or a portion of the service arrangement remains intact when the customer, as defined herein, is changed due to corporate merger or outright purchase, or,
  - 3. The portion of the service arrangement connecting an authorized user's or joint user's premises to a customer's service is transferred to a service of another customer, and provided that:
    - a. There is no break in the continuity of the service, and
    - b. No retermination or change of the services provided at the customer's, authorized user's, or joint user's premises, or at the Company central office takes place.
- B. The minimum service period for the services continued in use is determined from the date of initial installation thereof.

#### **B2.4.6 Suspension of Service**

- A. Private Line service may not be suspended in lieu of cancellation.

#### **B2.4.7 Temporary Surrender of a Private Line Service**

When, at the request of the Company, service is temporarily surrendered by the customer, credit will be allowed, the amount of which will be determined in the same manner as for an allowance for interruptions, as provided in B2.4.8 following.

#### **B2.4.8 Allowance for Interruptions**

- A. When service is interrupted due to causes other than the negligence of the customer, or to the failure of facilities furnished by the customer, a credit allowance will be made upon request as set forth in B. through E. following, or in the respective tariff section appropriate for each service, for the portion of the service which is affected. For the purpose of determining the amount of allowance every month is considered to have 30 days and only those stations on the interrupted portions of a service shall be considered in determining the number of stations affected. Long distance message telecommunications service furnished at the customer's request, when his service utilizing an interoffice channel is interrupted is charged for at the regular rates for long distance message telecommunications service.

An interruption period starts when the customer reports the interruption to the Company, and ends when the service is operative.
- B. When service utilizing Series 6000 interoffice channels is interrupted for a period of thirty seconds or more, credit is allowed on the basis of five minutes or each fraction thereof, of interruption; except that two or more such interruptions occurring during any period of five consecutive minutes shall be considered as one interruption.

The amount of credit is the proportionate part in five minute multiples related to the number of minutes encompassed by the applicable monthly or occasional charge for the portion of the service affected by the interruption.
- C. When service utilizing Series 1000 or 2000 channels is interrupted for a period of twenty-four hours or more, credit is allowed for the proportionate part of the monthly charge in multiples of one day for each twenty-four hours or major fraction thereof of interruption for the portion of the service affected by the interruption.
- D. For service utilizing channels of a Series or Type other than those in A. through C. preceding, no credit is allowed for interruption to service of less than thirty minutes. Interruptions of thirty minutes or over are credited to the customer at the proportionate monthly charge in half-hour multiples for each half-hour or major fraction thereof of interruption.
- E. No credit allowance will be made for interruptions of a service due to the failure of equipment or systems provided by the customer or others.

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## B2. REGULATIONS

### B2.4 Payment Arrangements and Credit Allowances (Cont'd)

#### B2.4.8 Allowance for Interruptions (Cont'd)

- F. For Self-healing Multi-nodal Alternate Route Topology Ring (FiberRing) service, a credit for a service interruption shall apply when any one failure of the Company's equipment occurs resulting in a service outage of the entire system and the system does not automatically self-heal around the point of failure within one (1) second. No credit shall apply unless the customer reports the service interruption to the Company and the trouble is found in the Company equipment based on information provided by the network surveillance system associated with the service. The credit shall equal the total of all the monthly charges for the service provided, however, no more than one credit shall apply per any given rate element for any given month regardless of the number of interruptions occurring during that month.

For service interruptions of less than the entire system resulting from a failure of the Company's equipment for FiberRing service where the system does not automatically self-heal around the point of failure, credit shall be allowed only for an interruption of one (1) minute or more. The credit will begin when the customer reports the interruption to the Company. This credit shall be at the rate of 1/1440 of the total monthly charges assessed for that portion of the service that is interrupted for each period of thirty minutes or major fraction thereof that the interruption continues.

Credit allowances will not apply if service is interrupted during customer requested upgrades and/or additions to the FiberRing service or during customer requested rearrangements.

- G. For Wavelength service, a credit for a service interruption shall apply when a single failure of the Company's equipment occurs resulting in a service outage of the entire system and the system does not automatically switch to an alternate facility path around the point of failure within one (1) second. No credit shall apply unless the customer reports the service interruption to the Company and the trouble is found in the Company equipment based on information provided by the network surveillance system associated with the service. The credit shall equal the total of all the monthly charges for the service provided, however, no more than one credit shall apply per any given rate element for any given month regardless of the number of interruptions occurring during that month.

For all other service interruptions resulting from a failure of the Company's equipment for Wavelength service, where the system does not automatically switch to an alternate facility path around the point of failure, credit shall be allowed only for an interruption of one (1) minute or more. The credit will begin when the customer reports the interruption to the Company. This credit shall be at the rate of 1/1440 of the total monthly charges assessed for that portion of the service that is interrupted for each period of 30 minutes or major fraction thereof that the interruption continues.

Credit allowances will not apply if service is interrupted during customer requested upgrades and/or additions to the Wavelength service or during customer requested rearrangements.

#### B2.4.9 Optional Payment Plan

##### A. Channel Services Payment Plan

##### 1. General

- a. The regulations specified herein are applicable to specific facilities as indicated in the appropriate sections of this Tariff for channel services.
- b. Facilities furnished under the Channel Services Payment Plan (CSPP) are subject to all general regulations applicable to the provision of service by the Company as stated elsewhere in this Tariff except as noted herein.
- c. The CSPP is a payment plan which allows customers to pay fixed or variable rates for channel service equipment and facilities over variable contractual payment periods. A specific monthly rate applies for the duration of each period as follows or as specified otherwise in this Tariff.
  - (1) 36 month Term Payment Plan - payment periods may be selected from 24 months to 48 months in length, at 36 month rates and charges.
  - (2) 60 month Term Payment Plan - payment periods may be selected from 49 months to 72 months in length, at 60 month rates and charges.
  - (3) 84 month Term Payment Plan - payment periods may be selected from 73 months to 96 months in length, at 84 month rates and charges.
- d. When the customer extends service beyond a ninety-six month service period, the eighty-four month Term Payment Plan (or the longest available tariffed service period) rates will apply.
- e. When the customer orders service to be provided under a CSPP arrangement, the customer must designate to the Company the payment plan and the service period desired, e.g. eighty-four month Term Payment Plan and ninety-six months.

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EFFECTIVE: October 8, 2010

## B2. REGULATIONS

### B2.4 Payment Arrangements and Credit Allowances (Cont'd)

#### B2.4.9 Optional Payment Plan (Cont'd)

##### A. Channel Services Payment Plan (Cont'd)

##### 2. Application of Rates and Charges

- a. Rates stabilized under a CSPP arrangement are exempt from Company initiated increases, however, decreases for any rate element will automatically flow through to the customer. Effective with this Tariff, customers under a CSPP arrangement will be billed the lower of their existing CSPP rates or the current CSPP rates for their service arrangement.
- b. In the event that all or any part of a service is disconnected at customer request prior to expiration of any selected payment period of greater than one month's duration, the customer will be required to pay a termination charge as stated in that service's section of this Tariff.
- c. When customers renew or change the length of their payment period, the rates applicable for the new period are those currently in effect at the time of the renewal or change in the length of the payment period. A service order charge will not be applicable for such renewals or changes to the payment period.
- d. Recurring rates and installation, termination, service establishment, Service Connection and other nonrecurring charges apply according to the appropriate schedules for services offered as associated items to Channel Services, and are filed elsewhere in this Tariff.
- e. Customer requests for inside moves of service will not affect the contract period.
- f. A change in jurisdiction will not constitute a disconnect of service provided the new CSPP arrangement is a minimum twenty-four month service period or equals/exceeds the remaining service period, whichever is greater, provided the new CSPP arrangement is for the same customer at the same location for the same capacity service.

##### 3. Additions

- a. Additions of services or rate elements for activating spare or unused capacities of a service under a CSPP arrangement will be considered part of the existing CSPP arrangement.
- b. Additions of services or rate elements, i.e. new local channels, interoffice channels, etc., other than for activating spare or unused capacities, must be under a new CSPP arrangement at rates and charges as specified in 2. preceding.
- c. Termination charges for premature disconnection of added contractual services will apply as set forth under Disconnects as stated in 4. following.
- d. Additions under CSPP are exempt from Company-initiated rate changes for all payment periods longer than one month. However, decreases for any rate element will automatically flow through to the customer.
- e. Installation, service order, service establishment, and any other nonrecurring charges, as specified in this Tariff, will apply to the added channel services.
- f. Additions of FiberRing service rate elements must be ordered as described in B7.7 of this Tariff.

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**B2. REGULATIONS****B2.4 Payment Arrangements and Credit Allowances (Cont'd)****B2.4.9 Optional Payment Plan (Cont'd)****A. Channel Services Payment Plan (Cont'd)****4. Disconnects**

- a. When a service or rate element, included under a CSPP arrangement, is disconnected prior to expiration of the selected service period, termination liability charges apply as set forth in the rate regulations in this Tariff for such service. Remaining services or rate elements will not be affected by such disconnections.
- b. When a tariffed service under a CSPP arrangement is disconnected prior to the expiration of a selected service period as a result of a change of tariff jurisdiction and/or a customer requested change to a higher order of a separately tariffed service, termination liability charges will not apply when:
  - the completed service period is twelve months, or twenty-five percent of the length of the originally selected CSPP service period, whichever is greater, and
  - the service period of the new CSPP arrangement for the higher order of service is a minimum twenty-four month service period or equals/exceeds the remaining service period of the disconnected arrangement, whichever is greater, and
  - the service orders to install the new higher order of service and disconnect the old service are related together and there is no lapse in service between installation of the higher order of service and disconnection of the existing service, and
  - the service orders are for the same customer at the same location.

For the purposes of determining a higher order of service, the following ranking will be used (Analog = lowest, FiberRing service = highest):

Analog Voice Grade Services  
 Digital Data service  
 DS1 service/DS1 Channel Service/Channelized Trunks<sup>2</sup>  
 DS1 Light Service  
 DS1 Plus Service  
 DS1 ISDN service/ Primary Rate ISDN<sup>1</sup>  
 Fiber Service  
 Wavelength Service  
 FiberRing service

**5. Moves of Equipment**

- a. The appropriate nonrecurring charges for inside moves for items associated with channel services as specified in this and other Tariffs are applicable. This type movement will not affect the contract period.
- b. Customer requests for moves of service(s) under CSPP, other than inside moves, will be subject to the conditions stated in 12. following.

**Note 1:** Primary Rate ISDN is located in the General Customer Services Tariff.

**Note 2:** Channelized Trunks may be located in the General Customer Services Tariff



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## B2. REGULATIONS

### B2.4 Payment Arrangements and Credit Allowances (Cont'd)

#### B2.4.9 Optional Payment Plan (Cont'd)

##### A. Channel Services Payment Plan (Cont'd)

##### 6. Requests for Changes in Length of Optional Payment Period

a. Subsequent to the establishment of a contract with a CSPP period, and prior to the completion of that period, the existing payment period may be replaced by:

(1) A currently offered payment period at the current rates, with a length equal to or longer than the time remaining in the existing service agreement, subject to the following conditions:

- No credit will be given for payments made during the formerly selected period.
- The new payment period begins with the new CSPP effective date.
- No termination charge applies for the remaining portion of the former payment period.
- Nonrecurring charges will not be reapplied.
- A service order charge will not apply.

(2) A currently offered payment period at the current rates, with a length shorter than the time remaining in the existing service agreement, subject to the following conditions:

- No credit will be given for payments made during the formerly selected period.
- The new payment period begins with the new CSPP effective date.
- A termination charge applies for the remaining portion of former payment period.
- Nonrecurring charges will not be reapplied.
- A service order charge will not apply.

##### 7. Renewal Options

a. The customer has the following renewal options:

(1) Prior to completion of the current payment period, any period available under the CSPP may be selected at the rates in effect for new customers at the time of the renewal. The customer will be charged the current rate for the newly selected payment period, commencing the day following completion of the prior payment period.

(2) Service may be continued on a month-to-month basis at the current rate for the one-month payment period, unless otherwise specified in this Tariff. The customer has no additional service commitment and, consequently, when service is terminated will not be subject to any termination charge. The one month service will be subject to Company-initiated rate adjustments when approved by the appropriate regulatory authority.

(3) If the customer does not elect an additional payment period or does not request discontinuance of service, service will be continued at the monthly rate currently in effect for the month-to-month payment rate, under the terms specified in (2) preceding.

(4) Upon expiration, the Letter of Election shall automatically renew for an additional one-year term under the same rates, terms and conditions in effect under the original Letter of Election, unless the Subscriber or the company provides written notice of its intent not to renew the Letter of Election at least sixty (60) days prior to the expiration of the initial term or any subsequent additional one-year term.

b. Service connection charges are not applicable for services renewed under the CSPP. Any new channel equipment and/or facilities added to a customer's network at the time of renewal will be subject to all appropriate nonrecurring charges.

c. The Company may discontinue or change any or all renewal options with approval of the appropriate regulatory authority.

d. When a customer renews a CSPP arrangement, the rates and charges in effect on the first day of service of the renewal will apply.

e. Recognition of previous service will be given to customers who renew an existing CSPP arrangement, for the same or larger system(s) and all associated rate elements at the same location(s), provided that the length of the new CSPP arrangement is a minimum twenty-four month service period or equals/exceeds the remaining service period of the original CSPP arrangement, whichever is greater.

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## B2. REGULATIONS

### B2.4 Payment Arrangements and Credit Allowances (Cont'd)

#### B2.4.9 Optional Payment Plan (Cont'd)

##### A. Channel Services Payment Plan (Cont'd)

##### 7. Renewal Options (Cont'd)

- f. Recognition of previous service will be given to month-to-month customers with a service date of January 1, 1994 or later who convert to a CSPP arrangement, provided the minimum service period has been met. For customers whose service date is January 1, 1994 or earlier, recognition will be given for the previous service back to January 1, 1994. For customers whose service date is later than January 1, 1994, recognition for the previous service will be given back to the actual service date.

- g. To determine the appropriate CSPP Payment Plan for the renewed arrangement, recognition of service will consist of the sum of months in service of the completed service arrangement and the sum of the months of the proposed service period of the CSPP arrangement. For example, a CSPP arrangement for a thirty-six month service period under the thirty-six month Term Payment Plan is renewed for twenty-four months with no changes at the end of the thirty-six month period. The sum of months for the completed and proposed service periods would equal sixty months and would be billed under the sixty month Term Payment Plan. Another example is a Month-to-Month customer, in service for fifteen months, who wishes to convert to a sixty month CSPP arrangement with no changes. The combined service period of the Month-to-Month arrangement and the CSPP arrangement is equal to seventy-five months, which would be billed under the eighty-four month Term Payment Plan.

##### 8. Transfer of Service

- a. Service may be transferred to a new customer at the same location upon prior written concurrence by the new customer as specified in this Tariff. This does not constitute a disconnect of service or a discontinuance of an existing CSPP arrangement. The new customer will be subject to all provisions and equipment configurations currently in effect for the previous customer. Regulations concerning transfer of service between subscribers as stated in other sections of this Tariff also apply under CSPP.

##### 9. Deferred Payment

- a. Payment of nonrecurring charges for channel services with contract payment plans may be deferred over the length of the customer's payment period or a shorter period (in annual increments) subject to the conditions specified in this paragraph.

- (1) The charges to be deferred must be among the following types:

Nonrecurring Charges

Service Establishment

- (2) The customer must select a payment period longer than one month.

- (3) The total amount of nonrecurring charges as defined in (1) *preceding* may be deferred.

- (4) The minimum amount deferrable per CSPP Contract is \$2,000.00

- (5) Interest on deferred amounts will be calculated at the rate set forth in the deferred payment agreement executed by the customer. The interest rate to be charged on deferred payments will be revised periodically by the Company. If, in the judgment of the Company, the maximum interest rate allowed by law is insufficient to cover the costs of providing the deferred payment option, the Company will suspend the availability of said option until such time as the costs of providing said option can be recovered through the application of a lawful interest rate. Suspension of the deferred payment option will not affect customers who have executed a deferred payment agreement prior to the effective date of such suspension.

- (6) The deferred charges (including interest) will be prorated on a monthly basis over the selected deferral period length.

- (7) All deferred charges must be paid in full when the customer:

Selects a payment period with an expiration date prior to the expiration date of the deferral period.

Disconnects service, for the system, prior to expiration of the selected deferral period.

Fails to pay a monthly amount within thirty days of its due date.

Moves a service under CSPP to another location in Company territory within the same state and jurisdiction, with the exception of an inside move.

- (8) The customer may prepay only the total outstanding deferred charges at any time during the selected deferral period. The customer will be given a credit for the amount of unearned interest. The customer may not prepay less than the total of the outstanding deferred charges.

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## B2. REGULATIONS

### B2.4 Payment Arrangements and Credit Allowances (Cont'd)

#### B2.4.9 Optional Payment Plan (Cont'd)

##### A. Channel Services Payment Plan (Cont'd)

###### 10. Prepayment

- a. For payment periods longer than one month, the customer may prepay the total outstanding recurring monthly rates. The prepayment of monthly rates in no way constitutes a purchase and the Company retains full ownership of all services covered by the prepayment. The following conditions apply:
  - (1) Customers who prepay six months or more will have an allowance applied. The prepayment factor to be used for each month prepaid will be revised periodically by the Company.
  - (2) Monthly rates for all services covered by a single Letter of Election must be prepaid. Monthly rates must be prepaid for services added subsequently and placed on the same Letter of Election (i.e., customer-elected coterminous option) with a prepaid system.
  - (3) Customers who change the length of a prepaid payment period will be credited any unused portion of the prepayment, subject to termination charges as specified in 4. preceding.
  - (4) Customers who prematurely disconnect will have termination charges deducted from the prepaid amount and any balance credited to their bill.

###### 11. Exception To Termination Liability For State, County, And Municipal Governments

- a. In the event that all or any part of the service is disconnected at customer request prior to expiration of any selected payment period of greater than one month's duration, the customer will be required to pay a termination charge as stated in the service tariffs. The Tariffs' provisions concerning termination liability for recurring charges only shall be inapplicable to any state, county or municipal governmental entity when there is in effect, as a result of action by such entity and through a duly constituted legislative, administrative or executive body:
  - (1) a statute;
  - (2) an ordinance;
  - (3) a policy directive; or
  - (4) a constitutional provision

which restricts or prohibits an additional contractual payment for early termination of a contract by any such entity, or agency thereof, due to an unavailability of funding. When service is being provided and funding to the governmental entity for such service becomes unavailable, the governmental entity may cancel the service without additional payment obligation. Provided, however, that if the governmental entity cancels the service for any reason other than the unavailability of funds, the termination liability provisions in the Tariff shall apply.

###### 12. Moves of Service(s) under CSPP

- a. Termination Liability Charges will not apply to customer requests for moves of service under CSPP from one location to another location subject to the following:
  - (1) The original and new premises locations must be in Company territory within the same state.
  - (2) The move from the original location to the new location must be completed within thirty days of the original premises disconnect date.
  - (3) No lapse in billing will occur for moves of service under CSPP.
  - (4) Orders to disconnect the existing service and reestablish it at the new location must be related.
  - (5) Any local channels, interoffice channels, and/or optional features and functions from the original location that are not reestablished at the new location will be subject to applicable Termination Liability charges.
  - (6) Any additions made at the new location will be treated as coterminous additions in accordance with 3. preceding.
  - (7) All regulations and charges for changes made to the service coincident to the move shall apply.
  - (8) All appropriate nonrecurring charges for moves of service as specified in this Tariff will apply.
  - (9) Moves of service that involve a change of jurisdiction, e.g., intraLATA to intrastate, intrastate to interstate, etc., will not be treated as a disconnect of service with regard to termination liability charge application. The customer must subscribe to a payment arrangement offered in the appropriate interstate tariff which is a minimum twenty-four month service period or equals/exceeds the remaining contract period, whichever is greater.
  - (10) Moves of FiberRing service are subject to the move provisions set forth in Section B7. of this Tariff.

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## B2. REGULATIONS

### B2.4 Payment Arrangements and Credit Allowances (Cont'd)

#### B2.4.10 Service Order Modifications

##### A. Service Date Change Charge

1. Service Order service dates for installation of new services or rearrangements of existing services may be changed, but the new service date may not exceed the original service date by more than thirty calendar days.
2. When, for any reason, the customer indicates that service cannot be accepted for a period not to exceed thirty calendar days, and the Company accordingly delays the start of service, a Service Date Change Charge will apply. If the customer requested service date is more than thirty calendar days after the original service date, the order will be cancelled by the Company and reissued with appropriate cancellation charges applied unless the customer indicates that billing for the service is to commence as set forth in B2.4.11.A. following.
3. A new service date may be established that is prior to the original service date if the Company determines it can accommodate the customer's request without delaying service dates for orders of other customers. If the service date is changed to an earlier date, the customer will be notified by the Company that Expedited Order Charges as set forth in B. following apply. Such charges will apply in addition to the Service Date Change Charge.
4. A Service Date Change Charge will apply, on a per occurrence basis, for each service date changed. The applicable charge is:

	Charge	USOC
(a) Per order	\$28.00	NA

##### B. Expedited Order Charge

1. If a customer desires that service be provided on an earlier date than that which has been established for the service order, the customer may request that service be provided on an expedited basis. If the Company agrees to provide the service on an expedited basis, an Expedited Order Charge will apply.
2. If the Company is subsequently unable to meet an agreed upon expedited service date, no Expedited Order Charge will apply unless the missed service date was caused by the customer.
3. The Expedited Order Charge is based on the extent to which the service order has been processed at the time the Company agrees to the service date improvement and is calculated as follows:
  - a. Based on the critical dates associated with the service order, as defined in B2.4.11.B.4.b. following, the Company will determine which critical date will be next completed on the order.
  - b. Using the table in B2.4.11.B.4.e. following and the critical date as determined preceding, the Company will determine the percent of the provisioning interval not yet completed by subtracting the percent shown on the table from one hundred.
  - c. The Company will apply this percentage to the sum of all the nonrecurring charges associated with the order and divide this sum by the number of days remaining in the original service interval.
  - d. The per day charges so developed will then be applied on a per day of improvement basis, per order, but in no event shall the charge exceed fifty percent of the total nonrecurring charges associated with the service order.
4. When the request for expediting occurs subsequent to the issuance of the service order, a Service Date Change Charge as set forth in A. preceding also applies.
5. The Expedited Order Charge applicable to non-design circuits will be equal to fifty percent of the total nonrecurring charges associated with the service order.

#### B2.4.11 Cancellation of a Service Order

- A. A customer may cancel a service order for the installation of service at any time prior to notification by the Company that service is available for the customer's use. The cancellation date is the date the Company receives written or verbal notice from the customer that the order is cancelled. If a customer is unable to accept service within thirty calendar days after the original service date, the customer has the choice of the following options:

- The service order shall be cancelled and charges set forth in B. following will apply, or
- Billing for the service will commence.

In any event, the cancellation date or the date billing is to commence (depending on which option is selected by the customer) shall be the 31st day beyond the original service date of the service order.

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## B2. REGULATIONS

### B2.4 Payment Arrangements and Credit Allowances (Cont'd)

#### B2.4.11 Cancellation of a Service Order (Cont'd)

- B.** When a customer cancels a service order for the installation of service, a cancellation charge will apply as follows:
1. Costs incurred in conjunction with the provision of Private Line Service start on the Application Date as defined in 4.b. following.
  2. When the customer cancels a service order prior to the Scheduled Issue Date, as defined in 4.b. following, no charges shall apply.
  3. When the customer cancels a service order on or after the Scheduled Issue Date, a charge equal to the estimated costs incurred by the Company shall apply. Such charge is determined as specified in 4. following.
  4. Charges applicable as specified in 3. preceding are based on the estimated costs incurred by the Company at the time the order is cancelled. The estimated costs incurred are determined based on the following.
    - a. Certain Company critical dates are associated with a service order provisioning interval, whether standard or negotiated. These dates are used by the Company to monitor the progress of the provisioning process. At any point in the service order interval the Company is able to determine which critical date was last and can thus determine what percentage of the Company's provisioning costs have been incurred as of that critical date.
    - b. The critical dates tracked by the Company are as follows:
      - Application Date (APP): The date the customer provides to the Company, (1) a firm commitment for service and (2) sufficient information to enable the Company to begin service provisioning. This is also the order date.
      - Scheduled Issue Date (SID): The date that the order is to enter the Company's order distribution system.
      - Records Issue Date (RID): The date that all design and assignment information is to be sent to the central office and installation forces.
      - Wired and Office Tested Date (WOT): The date by which all intraoffice wiring is to be completed, all plug-ins optioned, aligned, and frame continuity established, and the interoffice facilities, if applicable, tested. In addition, switching equipment, including translation loading, is to be installed and tested.
      - Plant Test Date (PTD): The date on which overall testing of the service is to be started.
      - Engineering Information Report Date (EIRD): The date the engineering group in another ISS area provides information to the primary engineering group.
      - Service Date (DD): The date on which service is to be made available to the customer. This is sometimes referred to as the Due Date.
      - Designed, Verified, and Assigned Date (DVA): The date by which field implementation groups must report that all documents and materials have been received.
      - Frame Continuity Date (FCD): Date on which frame-to-frame testing must be completed. This is sometimes referred to as the Facility Continuity Check Date.
      - Loop Assignment and Make-up Date (LAM): The date by which Local Loop Assignment and Make-up information must be available.

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## B2. REGULATIONS

### B2.4 Payment Arrangements and Credit Allowances (Cont'd)

#### B2.4.11 Cancellation of a Service Order (Cont'd)

##### B. (Cont'd)

##### 4. (Cont'd)

- c. The percentage of the total provisioning cost incurred by the Company at a particular critical date varies by the type of service shown in e. following.
- d. When a customer cancels a service order, or part of a service order, before the service date, the Company will apply cancellation charges to the order. Cancellation charges are calculated by multiplying all the nonrecurring charges associated with the order, or that part of the order being cancelled, by the percentage shown in e. following for the critical date last completed on the order.
- e. Cancellation Charge Percentages

TYPE SERVICE/ CRITICAL DATES	AFTER: SID LAM BEFORE: LAM EIRD		EIRD RID DVA RID DVA WOT			WOT FCD PTD DD FCD PTD DD			
VOICE GRADE	8.0	12.0	16.0	20.0	30.0	38.0	53.0	84.0	100.0
METALLIC GRADE	9.0	15.0	19.0	23.0	34.0	43.0	57.0	85.0	100.0
WIRED MUSIC	9.0	15.0	19.0	24.0	36.0	45.0	57.0	84.0	100.0
DS1 SERVICE	23.0	28.0	31.0	34.0	41.0	46.0	59.0	86.0	100.0
DS1 CHANNEL SERVICE	23.0	28.0	31.0	34.0	41.0	46.0	59.0	86.0	100.0
DS1 LIGHT SERVICE	23.0	28.0	31.0	34.0	41.0	46.0	59.0	86.0	100.0
DS1 PLUS SERVICE	23.0	28.0	31.0	34.0	41.0	46.0	59.0	86.0	100.0
DDS SERVICE	8.0	15.0	21.0	26.0	36.0	44.0	57.0	85.0	100.0
FiberRing SERVICE	23.0	28.0	31.0	34.0	41.0	46.0	59.0	86.0	100.0
PRIMARY RATE ISDN	23.0	28.0	31.0	34.0	41.0	46.0	59.0	86.0	100.0
Fiber Service	23.0	28.0	31.0	34.0	41.0	46.0	59.0	86.0	100.0

- f. Cancellation charges for non-design circuits are calculated by multiplying all the nonrecurring charges associated with the order, or that part of the order being cancelled, by twenty-five percent if the order is cancelled after the Application Date but before the Due Date. If the order is cancelled on the Due Date, one hundred percent of the nonrecurring charges will apply.
- C. When a customer cancels an order for the discontinuance of service no charges apply for the cancellation.
- D. If the Company misses a service date by more than thirty days due to circumstances over which it has direct control (excluding, e.g., acts of God, governmental requirements, work stoppages and civil commotions), the customer may cancel the service order without incurring cancellation charges.

#### B2.4.12 Billing of Private Line Service Provided by Multiple Companies

- A. Each company will bill for the portion of the private line service provided by their respective tariff based on their regulations, rates and charges as appropriate.

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## B2. REGULATIONS

### B2.4 Payment Arrangements and Credit Allowances (Cont'd)

#### B2.4.12 Billing of Private Line Service Provided by Multiple Companies (Cont'd)

- B.** The charges billed by this company for the interoffice channel between Exchange Telephone Company central offices, are determined as follows:
1. The total mileage for the service is computed using the V&H coordinates set forth in the National Exchange Carrier Association Tariff, Inc. F.C.C. No. 4.
  2. A billing factor is determined from the National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4. This factor represents the percentage of the distance between Exchange Telephone Company central offices that will be billed by this company. The billing factor is multiplied by the total charge for all of the miles to determine the amount to be billed by the Company.
  3. For the fixed recurring rate element and the Nonrecurring Charge associated with the interoffice channel between Exchange Telephone Company central offices, fifty percent of the Company's rate will apply for each end of the interoffice channel provided. If this company does not bill for either end of the interoffice channel, then the fixed recurring charge and nonrecurring charge shall not apply.

#### B2.4.13 Service Installation Guarantee

- A.** The Company assures that orders for services to which the Service Installation Guarantee (SIG) applies will be installed and available for customer use no later than the Service Date as specified in B2.4.11.B. preceding. The SIG is applicable only as specified in B. and C. following, and B2.1.4 preceding.
- B.** The failure of the Company to meet this commitment will result in the credit of an amount equal to the nonrecurring charges associated with the individual service having the missed Service Date being applied to the customer's bill. The credit will include only nonrecurring charges associated with the services as specified in B2.1.4 preceding for which nonrecurring charges are applicable. The nonrecurring charges will be credited at the rate at which they were billed. The credit will not be provided if a credit of the same nonrecurring charge for the same service is provided under any other provisions of this Tariff.
- C.** Service Installation Guarantee does not apply:
1. when failure to meet the Service Date occurs because of:
    - a. any act or omission of this customer, any other customer or any third party, or of any other entity providing a portion of a service,
    - b. labor difficulties, governmental orders, civil commotions, criminal actions against the Company, acts of God, war, or other circumstances beyond the Company's control,
    - c. unavailability of the customer's facilities and/or equipment,
    - d. a shortage of facilities that requires message toll and exchange line services take precedence over Private Line services as set forth in B2.1.2 preceding.
  2. to service requiring construction charges as set forth in B2.1.5 preceding and Section B5. following,
  3. to Specialized Service or Arrangements or Individual Case Basis filings,
  4. for jointly provisioned services, and
  5. to other telephone companies concurring in the rates and regulations of the Company.

In addition, Service Installation Guarantees will not apply during a declared National Emergency, Priority installation of National Security Preparedness (NSEP) telecommunications services shall take precedence.

#### B2.4.14 Disputes

- A.** A good faith dispute requires the customer to provide a written claim to the Company. Such claim must identify in detail the basis for the dispute, the account number under which the bill has been rendered, the date of the bill, and the specific items on the bill being disputed to permit the Company to investigate the merits of the dispute. The date of the dispute shall be the date on which the customer furnishes the Company the account information required above.
- B.** The date of resolution is the date the Company completes its investigation, provides written notice to the customer regarding the disposition of the claim, i.e., resolved in favor of the customer or resolved in favor of the Company, and credits the customer's account, if applicable.
- C.** If the billing dispute is resolved in favor of the customer, the customer shall receive a credit from the Company for a period of no more than 90 days prior to the dispute.

#### B2.4.15 Additional Copies of Bills

- A.** A good faith dispute requires the customer to provide a written claim to the Company. Such claim must identify in detail the basis for the dispute, the account number under which the bill has been rendered, the date of the bill, and the

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## B2.5 Definitions

## B2. REGULATIONS

Certain terms used generally throughout this Tariff are defined below.

### ACCESSORIES

The term "Accessories" denotes devices which are mechanically attached to, or used with, the facilities furnished by the Company and which are independent of, and not electrically, acoustically, or inductively connected to the conductors in the communications path of the Company facilities.

### ANOTHER TELEPHONE COMPANY

The term "Another Telephone Company" denotes a corporation, association, firm or individual owning and operating a toll line or one or more central offices and with whom traffic is interchanged.

### AUTHORIZED PROTECTIVE CONNECTING MODULE

The term "Authorized Protective Connecting Module" denotes a protective unit designed by the Company and manufactured under the control of the Company quality assurance procedures, which unit is to be incorporated in a conforming answering device.

### AUTHORIZED USER

The term "Authorized User" denotes a person, firm or corporation who is authorized by the customer to be connected to the service of the customer or a person, firm or corporation who is authorized by a joint user to be connected to the service of the joint user. An authorized user must be specifically named in the application for service and a station of the private line service must be located on his premises.

### BAUD

The term "Baud" denotes a unit of signaling speed. It is the reciprocal of the time duration in seconds of the shortest signal element (mark or space) within a code signal. The speed in bauds is the number of signal elements per second.

### BIPOLAR WITH 8 ZERO SUBSTITUTION (B8ZS)

The term "Bipolar with 8 Zero Substitution" (B8ZS) denotes a line code which allows transport of an all zero octet over a DS1/1.544 Mbps High Capacity channel. B8ZS enables Clear Channel Capability on DS1 service.

### BRIDGING CONNECTION

The term "Bridging Connection" as used in connection with Series 6000 channels (Type 6212) indicates amplifying equipment and services required to connect a station, or an interexchange channel serving a station, at an intermediate point on an interexchange network, or to connect an additional station at a terminal point.

### BUILDING (SAME)

The term "Same Building" is to be interpreted as a structure under one roof, or two or more structures under separate roofs but connected by enclosed passageways in which the wires or cable of the Company can be safely run provided the plant facility requirements are not appreciably greater than would be required normally if all structures were under one roof. In those cases where there are several structures under separate roofs but connected by enclosed passageways and the plant facility requirements for furnishing service are appreciably greater than would be required normally if all the structures were under one roof, the term "same building" applies individually to each of the separate structures. Pipes and conduit are not considered enclosed passageways.

### CENTRAL OFFICE

The term "Central Office" denotes a switching unit providing telephone service to the customers connected thereto.

### CENTRAL OFFICE CONNECTING FACILITY

The term "Central Office Connecting Facility" denotes a facility furnished to an Other Carrier by the Company (in accordance with the Company's Facilities for Other Carrier's Tariffs) between the terminal location of the Other Carrier and a point of connection on the Company premises.

### CENTREX TYPE SERVICES

Central office based non-transport arrangements which permit abbreviated internal calling, and inward and outward calling from station lines.

### CHANNEL

The term "Channel" denotes a path (or paths) for electrical communication, between two or more stations or Company offices. A channel may be furnished in such manner as the Company may elect, whether by wire, radio or a combination thereof and whether or not by means of a single physical facility or route.



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## **B2. REGULATIONS**

### **B2.5 Definitions (Cont'd)**

#### **CLEAR CHANNEL CAPABILITY**

The term "Clear Channel Capability" denotes the ability to transport twenty-four, 64 Kbps channels over a 1.544 Mbps (DS1) channel (i.e., a DS1 service channel), via B8ZS line code format.

#### **COMMUNICATIONS SYSTEMS**

The term "Communications Systems" denotes channels and other facilities which are capable, when not connected to private line services, of communications between terminal equipment or Company stations.

#### **COMPANY**

Wherever used in this Tariff, "Company" refers to Hargray Telephone Company, Inc., unless the context clearly indicates otherwise.

#### **COMPOSITE DATA SERVICE**

The term "Composite Data Service" denotes the combined use of terminal and data switching equipment with the use of communications services of the Company by a Composite Data Service Vendor to perform data switching for others.

#### **COMPOSITE DATA SERVICE VENDOR**

The term "Composite Data Service Vendor" denotes a customer that has been certificated by the Federal Communications Commission pursuant to Section 214 of the Communications Act of 1934, as amended, to acquire and operate facilities to perform data switching for others. A customer shall be classified as a Composite Data Service Vendor only with respect to use of those private line services which are utilized for the provision of composite data service.

#### **CONFORMANCE NUMBER**

The term "Conformance Number" denotes an identifying number assigned by the Company to a particular model of conforming answering device incorporating an authorized protective connecting module when that model or device is in conformance with the provisions set forth by the Company in its technical reference for conforming answering devices.

#### **CONFORMING ANSWERING DEVICE**

The term "Conforming Answering Device" denotes a device which automatically answers incoming calls; transmits a prerecorded voice message or appropriate audible signal to the calling party; records a voice message from the calling party if so designed and arranged; and automatically disconnects from the line in a prearranged manner on completion of the last of the functions for which it was designed and arranged as described in this paragraph. The conforming answering device may include remote interrogation and/or device function control. A conforming answering device must incorporate an authorized protective connecting module and must bear a valid conformance number.

#### **CONNECTING ARRANGEMENT**

The term "Connecting Arrangement" denotes the equipment provided by the Company to accomplish the direct electrical connection of customer-provided facilities with the facilities of the Company, or the direct electrical connection of Company facilities.

#### **CONTRACT**

The term "Contract" refers to the service agreement between a customer and the Company under which facilities for communication between specified locations, for designated periods, and for the use of the customer and the authorized users specifically named in the contract are furnished in accordance with the provisions of this Tariff.

#### **COORDINATING FACILITIES**

The term "Coordinating Facilities" denotes those used for communication between stations on program networks to enable the customer to pass information for the proper handling of his program.

#### **CUSTOM NETWORK SERVICE**

The term "Custom Network Service" refers to the provisioning of custom-designed networks composed of various Private Line Services. The rates and regulations for such networks, or arrangements, are found in Section B8. of this tariff.

#### **CUSTOMER**

The term "Customer" denotes the person, firm or corporation which orders service and is responsible for the payment of charges and compliance with Company regulations.

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## B2. REGULATIONS

### B2.5 Definitions (Cont'd)

#### DATA ACCESS ARRANGEMENT

The term "Data Access Arrangement" denotes a protective connecting arrangement for use with the network control signaling unit, or, in lieu of the connection arrangement, an arrangement to identify a central office line and protective facilities and procedures to determine compliance with criteria set forth in B2.6.2. of this Tariff.

#### SELECT-A-STATION SERVICE

##### Data Station Selector (DSS)

A private line device located in a Company central office which is capable of making connections between a four-wire input and up to 128 (125 for addressable operation) outputs, two-wire or four-wire, one at a time. DSSs are designated, as defined below, dependent upon the customer's service configuration:

##### Primary DSS (PDSS)

The DSS which is connected directly to the Selector Control Unit (SCU).

A PDSS provides the connection between the master station and any one of up to 128 (125 for addressable operation) two-wire or four-wire voice grade data channels. Where more than one DSS is required, the DSS that is directly connected to the master station is termed the PDSS. Additional DSSs, designated SDSSs, may be connected to the PDSS.

##### Secondary DSS (SDSS)

Any DSS which is connected to a PDSS.

##### Selector Control Unit (SCU) (This equipment has been designated as customer premises equipment)

The equipment located at the master station for use by the customer to transmit control and/or address signals to the DSSs and receive supervisory signals from the DSSs.

An SCU will be provided at the master station location. The SCU is used by the customer to transmit control and/or address signals to the DSSs and to receive supervisory signals from DSSs.

##### Master Station

The one station located on a customer's premises which communicates with each remote station and may control the connections.

##### Remote Station

One of the many stations located on the customer's premises which is connected to the master station by DSSs.

#### DATA SWITCHING

The term "Data Switching" as used in connection with composite data service denotes the switching of data (non-voice) messages by the interchange, controlling and routing of data messages between two or more stations, via communications facilities, wherein the information content of the message remains unaltered.

#### DEMARICATION POINT

The point of demarcation and/or interconnection between Company communications facilities and terminal equipment, protective apparatus or wiring at a subscriber's premises. Company-installed facilities at, or constituting, the demarcation point shall consist of wire or a jack conforming to Subpart F of Part 68 of the Federal Communications Commission's rules. "Premises" as used herein generally means a dwelling unit, other building or a legal unit of real property such as a lot on which a dwelling unit is located, as determined by the Company's reasonable and nondiscriminatory standard operating practices.

#### DIRECT ELECTRICAL CONNECTION

The term "Direct Electrical Connection" denotes a physical connection of the electrical conductors in the communications path.

#### DISTRIBUTION CENTER

The term "Distribution Center" as used in connection with Series 6000 channels furnished for music networks indicates amplifying and bridging equipment required to connect the various local sections of a network or to connect local sections to an interoffice section of the network.

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ISSUED: October 8, 2010

EFFECTIVE: October 8, 2010

## B2. REGULATIONS

### B2.5 Definitions (Cont'd)

#### DUPLEX SERVICE

The term "Duplex Service" denotes service which provides for simultaneous transmission in both directions.

#### EQUALIZATION

The term "Equalization" as applied to Series 6000 channels denotes a procedure which provides for the component frequencies of the material transmitted having about the same relationship at the two ends of the channel.

#### EXCHANGE

The term "Exchange" denotes a unit established by the Company or its connecting companies for the administration of communication service in a specified area which usually embraces a city, town or village and its environs. It consists of one or more central offices together with the associated plant used in furnishing communication service within that area.

#### EXCHANGE AREA

The term "Exchange Area" denotes the territory served by an exchange.

#### HALF-DUPLEX SERVICE

The term "Half-Duplex Service" denotes service which provides for transmission alternately in either direction or for transmission in one direction only including bidirectional simultaneous transmission of tones required solely for control purposes or quick turn around or synchronization.

#### HOST OFFICE

The term "Host Office" denotes an electronic switching system which provides call processing capabilities for one or more Remote Modules or Remote Systems.

#### HUB

The term "Hub" denotes a Company designated wire center where bridging or multiplexing functions are performed.

#### INTERFACE

The term "Interface" denotes that point on the premises of the customer, authorized user or joint user at which provision is made for connection of other than Company provided facilities to services provided by the Company.

#### INTEROFFICE CHANNEL

The term "Interoffice Channel" denotes that element of a private line service which interconnects Local Channels which serve customers located in different central office areas (wire center serving areas) within the same exchange.

#### INTRALATA

See Local Access and Transport Area (LATA)

#### JOINT USER

The term "joint user" denotes a person, firm or corporation who is designated by the customer as a user of a private line service furnished to the customer and to whom a portion of the charge for the service will be billed under a joint user arrangement as specified in B103.1.5 of this Tariff.

#### LINK

The term "Link" refers to the use of a single local channel and/or an interoffice channel as one segment (partial channel) of a two-point or multi-point arrangement when at least one other segment of the service arrangement is served by DS1 service, DS1 Light service, DS1 Plus service, DS1 channel service, FlexServ® service or FiberRing service.

#### LOCAL ACCESS AND TRANSPORT AREA (LATA)

The term "Local Access and Transport Area" denotes a geographic area established by the Company for the administration of communications service. It encompasses designated exchanges, which are grouped to serve common social, economic and other purposes.

#### LOCAL CHANNEL

The term "Local Channel" denotes that portion of a service required for connecting (1) the interoffice channel to a station location or (2) station locations within the same Wire Center serving area.

#### MOVE

The term "Move" as used in connection with the application of move charges for private line services denotes a change in the physical location (whether on the same or different premises), when made at the request of the customer without discontinuance of service, of facilities and items of equipment provided by the Company.

The term "Move" as used in connection with Termination Liability charges for private line services under CSPP denotes a change in the physical location from one premises to a different premises in Company territory within the same state and jurisdiction, when made at the request of the customer.

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## **B2. REGULATIONS**

### **B2.5 Definitions (Cont'd)**

#### **MULTIPOINT SERVICE**

The term "Multipoint Service" denotes a service which provides communications capability between more than two private line station locations on different premises by means of a bridging or hubbing arrangement.

#### **NETWORK FOR AUDIO TRANSMISSION CHANNELS**

The term "Network" as used in connection with Series 6000 channels denotes the channel facilities connecting two or more stations of a customer when at all times or at certain times the stations form a distinct operating group.

#### **NETWORK CONTROL SIGNALING**

The term "Network Control Signaling" denotes the transmission of signals used in the telecommunications system which performs functions such as supervision (control, status, and charging signals), address signaling (e.g., dialing), calling and called number identification, audible tone signals (call progress signals indicating re-order or busy conditions, alerting, coin denominations, coin collect and coin return tones) to control the operating of switching machines in the telecommunications systems.

#### **NETWORK CONTROL SIGNALING UNIT**

The term "Network Control Signaling Unit" denotes the terminal equipment furnished for the provision of network control signaling.

#### **PATRON**

The term "Patron" as used in connection with composite data service, denotes a subscriber to the data switching services of a Composite Data Service Vendor.

#### **PORT**

The term "Port" denotes the point of access into a computer, a network or other electronic device.

#### **PREMISES (SAME)**

The term "same premises" shall be interpreted to mean: (1) the building or buildings, together with the surrounding land occupied or used in the conduct of one establishment or business, or as a residence, and not intersected by a public thoroughfare or by property occupied by others; or (2) the portion of the building occupied by the subscriber, either in the conduct of his business or as a residence, and not intersected by a public corridor or by space occupied by others; or (3) the building or portion of a building occupied by the subscriber in the conduct of his business and as a residence provided both the business and the residence bear the same street address; or (4) the continuous property operated as a single farm whether or not intersected by a public thoroughfare.

In connection with inside moves, the term "same premises" is to be interpreted to mean the building or portion of a building occupied as a unit by the subscriber in the conduct of his business or residence, or a combination thereof, and not intersected by a public thoroughfare, a corridor or space occupied by others.

#### **PRIVATE LINE CHANNEL SERVICE**

The term "Private Line Channel Service" denotes a channel which provides a path for IntraLATA communications capabilities between station locations or Company offices and the channel service is not directly connected to the public switched network.

#### **PRIVATE LINE NETWORK**

The term "Private Line Network" denotes two or more private line units of the same type contracted for by one customer and reaching one or more common service points. The lines may be operated separately or they may be connected or connectable by means of a switching arrangement.

#### **REMOTE MODULES AND/OR REMOTE SYSTEMS**

The term "Remote Modules and/or Remote Systems" (RM or RS) denotes small end offices which obtain their call processing capability from a Host Office. When an RM or RS has its own NXX, the RM or RS will be considered the central office or wire center for rating purposes. When an RM or RS shares the NXX of the Host Office, the Host Office will be considered the central office or wire center for rating purposes.

#### **SERVICE INSTALLATION GUARANTEE**

The term "Service Installation Guarantee" denotes a program under which the Company will provide a credit to the customer's account for certain services in those instances when the Service Date is not met due to Company reasons.

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## B2. REGULATIONS

### B2.5 Definitions (Cont'd)

#### SERVICE POINT

The term "Service Point" when used in connection with private line services denotes an exchange which normally serves the exchange area in which a station of the customer is located, or an exchange in which an interoffice channel is terminated in a Company office at the request of the customer.

The term "Service Point" when used in connection with customer-provided communication channels denotes the point on the customer's premises where channels provided by or furnished to the customer are terminated in transmitting and receiving terminating equipment or switching equipment used, at least in part, for communications with stations or terminal equipment located on the premises.

#### SERVING CENTRAL OFFICE

The term "serving central office" denotes the central office from which a customer or authorized user would normally be served for local exchange telephone service.

#### STATION

The term "Station" as used in connection with private line services:

1. Denotes the transmitting or receiving equipment, or combination transmitting and receiving equipment at any location on a premises and connected for private line service or,
2. Denotes a point on a premises at which a channel is terminated where the service involves only channels and the transmitting or receiving equipment, or combination transmitting and receiving equipment, is furnished by the customer, authorized user or joint user or,
3. Denotes a termination of a private line in a Company office for foreign exchange service or in a switching center of a Switched Circuit Automatic Network or a Common Control Switching Arrangement.

A "Main Station Line " is the location which has been designated by the customer as the principal location or any other location which, at the request of the customer, is connected to the service by a separate local channel. An "Extension Station Line " is any other location on the same premises as a main station line and which, at the request of the customer, is connected to the same service by an extension to a local channel.

The term "Station" as used in connection with Series 6000 channels also includes points designated by a customer which are not on a premises but at which points material is transmitted to or received from a Series 6000 channel. A point of connection of Company interoffice and local channels is not considered to be a station.

#### STUDIO

The term "Studio" as used in connection with Series 6000 channels indicates fixed premises of a broadcasting station at which audio or television material regularly originates or is received for transmission to the broadcasting transmitter or to networks or to local distribution systems.

#### TELEMETRY/ALARM BRIDGING SERVICE (TABS)

##### Master Station

The one station of a multi-point system located on a customer's premises which communicates with, or receives communications from, each remote station.

##### Remote Station

One of the many stations of a multi-point system located on a customer's premises which is connected to the master station via the applicable TABS arrangement.

##### Master Station Channel

The dedicated private line channel of a TABS system connecting the master station to the primary bridge.

##### Remote Station Channel

The dedicated private line channel of a TABS system connecting each remote station to its bridge.

##### Mid-Link Channel

The dedicated interoffice private line channel of a TABS system connecting two bridges located in separate central offices with each other. This channel is only applicable for Split Band, Active Bridging.

##### Primary Bridge

The bridge which is connected directly to the master station via the master station channel.

##### Secondary Bridge

Any bridge in a TABS system which is connected to a primary bridge via a mid-link channel.

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EFFECTIVE: October 8, 2010

## B2. REGULATIONS

### B2.5 Definitions (Cont'd)

#### TERMINAL EQUIPMENT

The term "Terminal Equipment" denotes devices, apparatus and their associated wiring provided by a customer, authorized user or joint user which do not constitute a communications system.

#### TERMINATION LIABILITY CHARGE

The term "Termination Liability Charge" when used in connection with specially constructed facilities denotes the portion of the Maximum Termination Liability that is applied as a nonrecurring charge when all services are discontinued prior to the expiration of the specified liability period. The term "Termination Liability" as used in connection with the application of termination charges for private line services denotes the discontinuance, either at the request of the customer or by the Company under its regulations concerning cancellation for cause, of service or facilities (including channels and station equipment) provided by the Company.

#### TEST EQUIPMENT

The term "Test Equipment" denotes test equipment located at the premises of the customer that is used by the customer for the detection and/or isolation of a communications service fault.

#### WIRE CENTER

A "Wire Center" is a Company facility that houses Company equipment necessary for the provision of switched and non-switched telephone service to customers in a defined geographical area. The facility is identified with V&H coordinates and is assigned one or more NXX's for use in providing switched services to customers located in the specified geographical area. The Company equipment located at a Wire Center may consist of switching equipment or non-switched equipment working with a distant host switch as well as equipment used to terminate dedicated non-switched services.

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ISSUED: October 8, 2010

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## B2. REGULATIONS

### B2.6 Connections

#### B2.6.1 General Provisions

##### A. General

1. Terminal equipment and communications systems provided by the customer, authorized user, or joint user may be connected at the customer's premises to private line services furnished by the Company where such connections are made in accordance with the provisions of B2.1.4 preceding and this B2.6.
2. The term "telecommunications services" when used in this B2.6 denotes exchange service, Long Distance Message Telecommunications Service (LDMTS) and Wide Area Telecommunications Service (WATS).

##### B. Responsibility of the Customer

1. The customer, authorized user or joint user shall be responsible for the installation, operation and maintenance of any terminal equipment or communications system or any terminal equipment or interstate communications systems provided by an OC listed in B2.6.11.C. following. No combination of terminal equipment or communications system shall require change in or alteration of the equipment or services of the Company, cause electrical hazards to Company personnel, damage Company equipment, malfunction of Company billing equipment, or degradation of service to persons other than the user of the subject terminal equipment or communications system, his calling or called party. Upon notice from the Company that the terminal equipment or communications system is causing such hazard, damage, malfunction or degradation of service, the customer shall make such change as shall be necessary to remove or prevent such hazard, damage, malfunction or degradation of service.
2. Where the customer, authorized user or joint user elects to provide data set(s) on a given Company-provided private line, it shall be the responsibility of the customer, authorized user or joint user to ensure the continuing compatibility of such data set(s) with the private line service furnished by the Company.
3. The consent of the customer must be obtained by the authorized user, joint user or OC prior to the connection of terminal equipment or communications systems to a private line provided to the customer.
4. Where private line services furnished by the Company are used in the provision of a composite data service for others and connection of those private line services is made to a communications system provided by an OC and the connection is made through data switching equipment, the regulations specified in B2.6.11 following are not applicable.

##### C. Responsibility of The Company

1. Private line services are not represented as adapted to the use of terminal equipment or communications systems. Where such terminal equipment or communications systems are used with private line services, the responsibility of the Company shall be limited to the furnishing of service components suitable for private line services and to the maintenance and operation of service components in a manner proper for such services. Subject to this responsibility the Company shall not be responsible for (1) the through transmission of signals generated by the terminal equipment or communications systems or for the quality of, or defects in, such transmission, or (2) the reception of signals by terminal equipment or communications systems, or (3) address signaling where such signaling is performed by tone-type signaling equipment provided by the customer, authorized user, joint user, or OC listed in B2.6.11.C. following.
2. The Company will, at the customer's request, provide information concerning interface parameters, including the number of ringers which may be connected to a particular line, needed to permit the terminal equipment to operate in a manner compatible with the telecommunications network.
3. The Company may make changes in its telecommunications network, equipment, operations or procedures, where such action is not inconsistent with Part 68 of the Federal Communications Commission's Rules and Regulations. If such changes can be reasonably expected to render any terminal equipment or communications system incompatible with the telecommunications network, or require modification or alteration of such terminal equipment or communications systems, or otherwise materially affect its use or performance, the customer will be given adequate notice in writing, to allow the customer an opportunity to maintain uninterrupted service.

##### D. Recording of Two-Way Telephone Conversations

Private line services are not represented as adapted to the recording of two-way telephone conversations. When voice recording equipment is used with a private line service which is connected to telecommunications services, the provisions relating to Recording of Two-Way Telephone Conversations as may be set forth in the General Customer Services Tariff are applicable to such private line service.

## B2. REGULATIONS

### B2.6 Connections (Cont'd)

#### B2.6.1 General Provisions (Cont'd)

##### E. Violation of Regulations

Where any terminal equipment or communications system provided by a customer, authorized user or joint user or any terminal equipment or interstate communications systems provided by an OCC listed in B2.6.11.C. following is used with private line services furnished by the Company and any of the provisions in B2.6 are violated the Company will take such immediate action as necessary for the protection of its facilities and will promptly notify the customer, authorized user or joint user of the violation. The customer, authorized user, or joint user shall take such steps as are necessary to discontinue such use of the equipment or system or correct the violation and shall confirm in writing to the Company within 10 days, following the receipt of written notice from the Company, that such use has ceased or that the violation has been corrected. Failure to discontinue such use or to correct the violation and to give the required written confirmation to the Company within the time stated preceding shall result in suspension of the customer's, authorized user's, or joint user's service until such time as there is compliance with the provisions of this Tariff.

##### F. Definitions

###### Grandfathered Communications Systems

The term "Grandfathered Communications Systems" as used in this Tariff denotes communications system (including their equipment, premises wiring and protective circuitry if any) connected at the customer's premises, in accordance with any telephone company's tariffs, and that are considered to be grandfathered under Part 68 of the Federal Communications Commission's Rules and Regulations because, (a) such systems were connected to the telecommunications network or the private line services specified in B2.6.2.B following prior to January 1, 1980 and were of a type system which was directly connected (i.e. without connecting arrangements) to the telecommunications network or the private line services specified in B2.6.2.B following as of June 1, 1978, or (b) such systems are connected to the private line services specified in B2.6.2.C or B2.6.2.D following prior to May 1, 1983 and are of a type system which was directly connected (i.e. without connecting arrangements) to the private line services specified in B2.6.2.C or B2.6.2.D following as of April 30, 1980.

###### Grandfathered Connections of Communications Systems

The term "Grandfathered Connections of Communications Systems" as used in this Tariff denotes connections via connecting arrangements of communications systems (including their equipment and premises wiring) at the customer's premises, in accordance with any telephone company's tariffs, and that are considered to be grandfathered under Part 68 of the Federal Communications Commission's Rules and Regulations because (a) such connections to the telecommunications network or the private line services specified in B2.6.2.B following were made via connecting arrangements prior to January 1, 1980 and such connecting arrangements are of a type of connecting arrangement connected to the telecommunications network or the private line services specified in B2.6.2.B following as of June 1, 1978, or (b) such connections to the private line services specified in B2.6.2.C or B2.6.2.D following are made via connecting arrangements prior to May 1, 1983 and such connecting arrangements are of a type of connecting arrangement connected to the private line services specified in B2.6.2.C or B2.6.2.D following as of April 30, 1980.

###### Grandfathered Terminal Equipment

The term "Grandfathered Terminal Equipment" as used in this Tariff denotes terminal equipment (including protective circuitry if any) connected at the customer's premises, in accordance with any telephone company's tariffs, and that is considered to be grandfathered under Part 68 of the Federal Communications Commission's Rules and Regulations because (a) such terminal equipment was connected to the telecommunications network or the private lines services specified in B2.6.2.B following prior to July 1, 1979 and was of a type of terminal equipment which was directly connected (i.e. without connecting arrangements) to the telecommunications network or the private line services specified in B2.6.2.B following as of October 17, 1977, or (b) such terminal equipment is connected to the private line services specified in B2.6.2.C or B2.6.2.D following prior to May 1, 1983 and is of a type of terminal equipment which was directly connected (i.e. without connecting arrangements) to the private line services specified in B2.6.2.C or B2.6.2.D following as of April 30, 1980.



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ISSUED: October 8, 2010

EFFECTIVE: October 8, 2010

## B2. REGULATIONS

### B2.6 Connections (Cont'd)

#### B2.6.1 General Provisions (Cont'd)

##### Grandfathered Connections of Terminal Equipment

The term "Grandfathered Connections of Terminal Equipment" as used in this Tariff denotes connections via connecting arrangements of terminal equipment connected at the customer's premises, in accordance with any telephone company's tariffs, and that are considered to be grandfathered under Part 68 of the Federal Communications Commission's Rules and Regulations because, (a) such connections to the telecommunications network or the private line services specified in B2.6.2.B following were made via connecting arrangements prior to July 1, 1979 and such connecting arrangements are of a type of connecting arrangement connected to the telecommunications network or the private line services specified in B2.6.2.B following as of October 17, 1977, or (b) such connections to the private line services specified in B2.6.2.C or B2.6.2.D following are made via connecting arrangements prior to May 1, 1983 and such connecting arrangement connected to the private line services specified in B2.6.2.C or B2.6.2.D following as of April 30, 1980.

##### Registered

The term "Registered" as used in this Tariff denotes equipment which complies with and has been approved within the Registration provisions of Part 68 of the Federal Communications Commission's Rules and Regulations.

- G. Terminal equipment, communications systems and premises wiring may be connected in an interpositioned configuration to private line services subject to B2.6.2. following .
- H. Connection of terminal equipment shall not require any change or alteration in Company-provided equipment or services, unless permitted under the provisions of B2.6.6 of this Tariff.

#### B2.6.2 Connections of Registered Equipment

- A. Terminal equipment, protective circuitry, and communications systems that are registered may be connected to those private line services specified in B, C, or D, following, subject to B2.6.1. preceding and this B2.6.2.
- B. The connection may be made only at the customer's premises to private line services that present a two wire or four wire loop signaling interface for such connection under the following conditions:
  - 1. Registered terminal equipment, registered protective circuitry, and registered key telephone systems may be connected to the station end of private line services furnished in connection with off-premises stations.
  - 2. Registered PBX Systems may be connected, as a trunk termination, to the station end of private line services furnished in connection with off-premises stations.
  - 3. Registered terminal equipment, registered protective circuitry, and registered key telephone systems may be connected to CCSA or EPSCS access lines.

A channel may be utilized with registered terminal equipment, registered protective circuitry and registered communications systems which are connected to the exchange telephone service associated with such channels.

- C. The connection of registered terminal equipment and registered PBX systems may be made only at the customer's premises to private line services that present an interface for either two wire or four wire transmission, with separate E and M signaling leads conventionally known as Type I (battery/ground) or Type II (contact closure type). Such E and M signaling leads are those terminal equipment or PBX leads (other than voice or data communications leads) used for the purpose of transferring supervisory or address signals across the interface.
- D. The connection of customer-provided registered terminal equipment and registered PBX systems may be made only at the customer's premises to a Series 1000 and 2000 private line service furnished to provide indications of message registration of outgoing calls or automatic identification of outward dialing (AIOD) to such customer-provided equipment or systems.
  - 1. In addition, customers who intend to install, perform additions to, or make rearrangements of AIOD functions shall give advance notice to the Company in accordance with the procedures specified in Part 68 of the Federal Communications Commission's Rules and Regulations or as otherwise authorized by the Federal Communications Commission.

## B2. REGULATIONS

### B2.6 Connections (Cont'd)

#### B2.6.3 Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems

##### A. Direct Connections

1. Grandfathered terminal equipment and grandfathered communications systems, directly connected to the private line services specified in B2.6.2.B preceding are subject to A15.1.3.A, Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems, of the General Subscriber Service Tariff. Such connections are subject to the minimum protection criteria set forth in B2.6.4.F, following.
2. Grandfathered terminal equipment and grandfathered communications systems, directly connected to the private line services specified in B2.6.2.C and D preceding on April 30, 1980, may remain connected for the life of the equipment without registration, and may be modified only in accordance with Part 68 of the Federal Communications Commission's Rules and Regulations, subject to the following:
  - a. All such connections shall comply with the minimum protection criteria set forth in B2.6.4.F. following.
  - b. No changes may be made to equipment so connected except by the manufacturer thereof, or a duly authorized agent of the manufacturer.
3. Until May 1, 1983, new installations of terminal equipment or communications systems which have been grandfathered may be connected for use with the private line services specified in B2.6.2.C or D, preceding, subject to the following:
  - a. The customer shall notify the Company when such equipment or systems are to be connected and shall notify the Company when such equipment or systems are to be permanently disconnected; such notification shall include a description of the equipment including the manufacturer's name, model number, and type of equipment;
  - b. All such connections are made through standard jacks or are otherwise connected by the Company;
  - c. All such connections shall comply with the minimum protection criteria set forth in B2.6.4.F following;
  - d. Premises wiring associated with communications systems shall conform to Part 68 of the Federal Communications Commission's Rules and Regulations;
  - e. No changes may be made to equipment so connected except by the manufacturer thereof, or a duly authorized agent of the manufacturer.
4. Additions to grandfathered terminal equipment or grandfathered communications systems specified in 2 and 3 preceding may be made, subject to 3.a. through e. preceding and to the following:
  - a. Until May 1, 1983, where the equipment being added is of a type which has been grandfathered, and
  - b. After May 1, 1983, where the equipment being added is grandfathered.
  - c. Additions of registered equipment is subject to B2.6.2 preceding.
5. Systems connected pursuant to 2 through 4 preceding may remain connected and be moved and reconnected, in accordance with 3 a. through e. preceding, for the life of the equipment and may be modified only in accordance with Part 68 of the Federal Communications Commission's Rules and Regulations.
6. Terminal equipment and communications systems connected via grandfathered protective circuitry are subject to the provisions of 1 through 5 preceding.

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ISSUED: October 8, 2010

EFFECTIVE: October 8, 2010

## **B2. REGULATIONS**

### **B2.6 Connections (Cont'd)**

#### **B2.6.3 Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems (Cont'd)**

- B.** Connections Through Connecting Arrangements Provided by the Company
1. Grandfathered connections of terminal equipment and grandfathered connections of communications systems to the private line services specified in B2.6.2.B preceding are subject to A15.1.3.B. Connections of Grandfathered Terminal Equipment and Grandfathered Communications Systems, of the General Subscriber Service Tariff. Such connections are subject to the minimum protection criteria set forth in B2.6.4.F following.
  2. Grandfathered connections of terminal equipment and grandfathered connections of communications systems to the private line services specified in B2.6.2.C and D preceding are subject to the following:
    - a. Until May 1, 1983, the Company will provide connecting arrangements for installations of new terminal equipment or communications systems that are subject to Part 68 of the Federal Communications Commission's Rules and Regulations. However, after May 1, 1983, connecting arrangements will only be provided to the extent that such connecting arrangements are available, to reconnect terminal equipment or communications systems which were previously connected to the private line services specified in B2.6.2.C or C preceding through connecting arrangements prior to May 1, 1983.
    - b. Grandfathered connections of terminal equipment and grandfathered connections of communications systems made in accordance with a. preceding may remain connected and be moved and reconnected for the life of the equipment and may be modified only in accordance with Part 68 of the Federal Communications Commission's Rules and Regulations. Connecting arrangements used for such moves and reconnections will continue to be provided by the Company subject to their availability, at the rates and charges specified in Section B104. of this Tariff and Section A15. of the General Subscriber Service Tariff.
    - c. Network control signaling shall be performed by the connecting equipment furnished, installed and maintained by the Company, except that customer-provided tone-type address signaling is permissible through a connecting arrangement.
    - d. The connections specified in a. through c. preceding must comply with the minimum protection criteria specified in B2.6.4.F following.

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ISSUED: October 8, 2010

EFFECTIVE: October 8, 2010

## B2. REGULATIONS

### B2.6 Connections (Cont'd)

#### B2.6.4 Connections of Terminal Equipment and Communications Systems Not Subject to the FCC Registration Program

##### A. General

1. Connecting arrangements are not required and minimum protection criteria are not applicable where terminal equipment or communications systems are connected with the following channels when such channels are used for the types of transmission specified herein due to the nature of the service provided and/or the type of channels and equipment used.
  - Type 1001 through Type 1002 Channels
  - Type 1101 through Type 1102 Channels
  - Type 1204 through Type 1205 Channels
  - Series 6000 Channels
2. Except as otherwise provided in B2.6.2 and B2.6.3 preceding, terminal equipment and communications systems may be electrically connected to private line services in accordance with this B2.6.4.
  - a. When the terminal equipment or communications system is connected with private line service furnished by the Company and such private line service is not arranged for connection to telecommunications services, such connections shall be made to an interface provided by the Company.
  - b. When the terminal equipment or communications system is connected with private line service furnished by the Company and such private line service is arranged for connection to telecommunications services:
    - (1) Except as otherwise specified in B2.6.4.D.1.d. following, such connections shall be made through a connecting arrangement as provided in this B2.6.4, and
    - (2) The connection shall be such that the functions of network control signaling (except customer-provided tone type address signaling through a connecting arrangement) are performed by equipment furnished by the Company.
  - c. Terminal equipment or communications system connected pursuant to a. or b. preceding must comply with the minimum protection criteria specified in F. following.

##### B. Data Terminal Equipment

Data terminal equipment (including telephotograph equipment) may be connected at the customer's premises to private line service through a network control signaling unit and a data access arrangement provided by the Company in accordance with the following when such private line service is arranged as provided in B2.6.4.A.2.b. preceding.

1. The customer shall furnish the equipment which performs the functions of:
  - a. Conditioning the data signals generated by the terminal equipment to signals suitable for transmission by means of Company services, and
  - b. Conditioning signals transmitted by means of Company services to data signals suitable for reception by the terminal equipment.
2. Where a data access arrangement is furnished in connection with terminal equipment and such terminal equipment is used for both voice and data communication, the data access arrangement may be used to connect the terminal equipment for voice communication.

##### C. Voice Terminal Equipment

1. Voice terminal equipment may be connected at the customer's premises to private line service in accordance with the following when such private line service is arranged as provided in B2.6.4.A.2.b.
  - a. The connection shall be made through a network control signaling unit and a connecting arrangement furnished by the Company.
  - b. Where a data access arrangement is furnished in connection with terminal equipment and such terminal equipment is used for both voice and data communication, the data access arrangement may be used to connect the terminal equipment for voice communication.
2. Attested Equipment and Conforming Answering Devices may be used with private line service.

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## B2. REGULATIONS

### B2.6 Connections (Cont'd)

#### B2.6.4 Connections of Terminal Equipment and Communications Systems Not Subject to the FCC Registration Program (Cont'd)

##### D. Communications Systems

1. Communications systems may be connected (other than communications systems connected pursuant to B2.6.2 and B2.6.3 preceding) to private line service in accordance with this B2.6.4.D.1. These communication systems (including channels derived from such systems), not exceeding voice grade, may be connected at the customer's or authorized user's premises where the customer, authorized user or joint user has a regular and continuing requirement for the origination or termination of communications over the communications system provided that:
  - a. The normal mode of operation of the communications systems shall be to provide communications originating or terminating at the premises on which the connection is made.
  - b. The connection shall be made through switching equipment provided either by the customer, or authorized user or by the Company.
  - c. The connection shall be to channels of a Type number lower than 6000 furnished by the Company or to channels created therefrom in accordance with the provisions of B2.2.6. preceding.
  - d. When the private line service is arranged as provided in B2.6.4.A.2.b. preceding, the connection is made through:
    - (1) a connecting arrangement
    - (2) registered or grandfathered terminal equipment, communications system, or protective circuitry which, either singularly or in combination assures that the requirements of Part 68 of the Federal Communications Commission's Rules and Regulations are met at the private line interface.

Minimum protection criteria as set forth in f. following must be complied with when the connection is made through equipment or systems that are not registered.

In lieu of these requirements for total hardware protection, an optional, alternative method, as described in e. following, is available for the control of signal power only.

- e. When communications systems not subject to Part 68 of the Federal Communications Commission's Rules and Regulations are connected to private line services that are arranged as provided in B2.6.4.A.2.b. preceding and the connection is through (a) a connecting arrangement or (b) registered or grandfathered terminal equipment, communications system or protective circuitry which assures that all of the requirements of Part 68 of the Federal Communications Commission's Rules and Regulations are met at the private line service interface, no further action is required. However, when a customer elects to connect a communications system to private line service and the registered or grandfathered equipment, system or protective circuitry through which the connection is made does not provide protection for signal power control, the customer must comply with the following institutional procedures:
  - (1) The communications system must be installed, operated and maintained so that the signal power (within the frequency range of 200-4000 Hertz) at the private line service interface continuously complies with Part 68 of the Federal Communications Commission's Rules and Regulations.
  - (2) The operator(s)/maintainer(s) responsible for the establishment, maintenance and adjustment of the voice frequency signal power present at the private line service interface must be trained to perform these functions by successfully completing one of the following:
    - a training course provided by the manufacturer of the equipment used to control voice frequency signal power; or
    - a training course provided by the customer or authorized representative, who has responsibility for the entire communications system, using training materials and instructions provided by the manufacturer of the equipment used to control the voice frequency signal power; or
    - an independent training course (e.g., trade school or technical institution) recognized by the manufacturer of the equipment used to control the voice frequency signal power; or

in lieu of the preceding training requirements, the operator(s)/maintainer(s) is under the control of a supervisor trained in accordance with the three preceding requirements.

Upon request the customer is required to provide the proper documentation to demonstrate compliance with the requirements in B2.6.4.D.1.e.(2).

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ISSUED: October 8, 2010

EFFECTIVE: October 8, 2010

## B2. REGULATIONS

### B2.6 Connections (Cont'd)

#### B2.6.4 Connections of Terminal Equipment and Communications Systems Not Subject to the FCC Registration Program (Cont'd)

**D. Communications Systems (Cont'd)**

1. (Cont'd)

e. (Cont'd)

- (3) At least 10 days advance notice must be given to the Company in the form of a notarized affidavit before the initial connection of the communications system. A copy of the affidavit must also be maintained at the customer's premises. The affidavit must contain the following information:

The full name, business address, business telephone number and signature of the customer or authorized representative who has responsibility for the operation and maintenance of the communications system.

The line(s) which the communications system will either be connected to or arranged for connection to.

A statement that all operations associated with the establishment, maintenance and adjustment of the signal power present at the private line service interface will comply with Part 68 of the Federal Communications Commission's Rules and Regulations.

A statement describing how each operator/maintainer of the communications system will meet and continue to meet the training requirements for persons installing, adjusting or maintaining the communications system.

f. Extraordinary Procedures

- (1) The Company may invoke extraordinary procedures to protect the private line service where one or more of the following conditions are present:

Information provided in the affidavit gives reason to believe that a violation of Part 68 of the Federal Communications Commission's Rules and Regulations or the Institutional Procedures set forth in e. preceding is likely.

Harm has occurred and there is reason to believe this harm was a result of operations performed under the Institutional Procedures set forth in e. preceding.

- (2) The extraordinary procedures which can be invoked by the Company include:

Requiring the use of protective apparatus which either protects solely against signal power or which assures that all of the requirements of Part 68 are met at the private line service interface. This protective apparatus may be provided by either the Company or the customer.

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EFFECTIVE: October 8, 2010

## B2. REGULATIONS

### B2.6 Connections (Cont'd)

#### B2.6.4 Connections of Terminal Equipment and Communications Systems Not Subject to the FCC Registration Program (Cont'd)

##### D. Communications Systems (Cont'd)

2. Communications systems may be connected through connecting arrangements with Type 10001 Channels (Entrance Facilities) furnished for the purpose of extending the communications system to a premise of the customer or authorized user. The Type 10001 channel or channels created therefrom in accordance with the provisions of B2.2.6. preceding may be connected at such customer's, or authorized user's premises to other communications systems in accordance with B2.6.4.D.1.a. through c. preceding.
3. At the customer's request and where a private line is arranged for joint use as set forth in B3.1.5. following, a joint user of such service may connect his own communications system to such jointly used private line on the same basis as set forth in A.2. and D.1. preceding and F. following.
4. A communications system provided by an authorized user may be connected at the premises of the authorized user to private line service furnished by the Company to a customer on which the authorized user has a station provided that:
  - a. The customer has a regular and continuing requirement for communications originating or terminating at the authorized user's premises at which the connection is made.
  - b. The normal mode of operation of the authorized user-provided communications system shall be to provide communications originating or terminating at the premises on which connection is made.
  - c. The connection shall be made through switching equipment provided by the customer or authorized user or by the Company.
  - d. The connection shall be to channels of a Type number lower than 6000 furnished by the Company or to channels created therefrom in accordance with the provisions of B2.2.6 preceding.
  - e. The connection shall be made on the same basis as set forth for the customer in A.2. preceding and F. following.
  - f. All communications over the interconnected facilities shall be between the customer and authorized user and relate directly to the customer's business.

##### E. Accessories

Accessories provided by a customer, authorized user, or joint user may be used with private line service provided that such accessories comply with the provisions of B2.6.1.B and B2.6.4.A.2.b.(2). preceding.

##### F. Minimum Protection Criteria for Electrical Connections

1. Since private line services utilize Company channels and equipment in common with other services, it is necessary in order to prevent excessive noise and crosstalk that the power of the signal applied to the Company private line service is individually engineered, a single valued limit for all applications cannot be specified. Therefore, the power of the signal in the band above 300 Hertz which may be applied by the equipment to the interface will be specified by the Company for each application to be consistent with the signal power allowed on the telecommunications network.
2. To protect other services, it is necessary that the signal which is applied by the equipment to the Company interface located on the customer's premises meet the following limits:
  - a. The power in the band from 3,995 Hertz to 4,005 Hertz shall be at least 18dB below the power of the signal as specified in 1. above.
  - b. The power in the band from 4,005 Hertz to 10,000 Hertz shall not exceed 16dB below one milliwatt.
  - c. The power in the band from 10,000 Hertz to 25,000 Hertz shall not exceed 24dB below one milliwatt.
  - d. The power in the band from 25,000 Hertz to 40,000 Hertz shall not exceed 36dB below one milliwatt.
  - e. The power in the band above 40,000 Hertz shall not exceed 50dB below one milliwatt.
3. Where there is connection to telecommunications services, to prevent the interruption or disconnection of a call, or interference with network control signaling, it is necessary that the signal applied by the equipment to the Company interface located on the customer's premises at no time have energy solely in the 2450 to 2750 Hertz band. If signal power is in the 2450 to 2750 Hertz band, it must not exceed the power present at the same time in the 800 to 2450 Hertz band.
4. Where equipment applies signals having components in the frequency spectrum below 300 Hertz, excluding ringing signals, the currents and voltages (including all harmonics and spurious signals) at the interface shall not exceed the limits indicated in a. through d. following:
  - a. The maximum rms (root-mean-square) value, including DC and AC components, of the current per conductor will be specified by the Company but in no case will the specified value exceed 0.35 ampere.

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## B2. REGULATIONS

### B2.6 Connections (Cont'd)

#### B2.6.4 Connections of Terminal Equipment and Communications Systems Not Subject to the FCC Registration Program (Cont'd)

##### F. Minimum Protection Criteria for Electrical Connections (Cont'd)

4. (Cont'd)
  - b. The magnitude of the peak of the conductor to ground voltage shall not exceed 70 volts.
  - c. The conductor to conductor voltage shall be such that the conductor to ground voltage limit in b. preceding is not exceeded. If the signal source is not grounded, the voltage limit in b. above applies to the conductor-to-conductor voltage.
  - d. The total weighted rms voltage within the band from 50 Hertz to 300 Hertz shall not exceed 100 volts. The total weighted rms voltage is the square root of the sum of the products of the weighting factors for the individual frequency components times the square of the rms voltage of the individual frequency components. The weighting factors are as indicated:

For frequencies between	Weighting Factor
50 Hertz and 100 Hertz	$f^{2/10^4}$
100 Hertz and 300 Hertz	$f^{3.3/10^{6.6}}$

Where f is the numerical value of the frequency, in Hertz, of the frequency component being weighted.

##### G. Acoustic or Inductive Connections

###### 1. General

- a. Voice or data terminal equipment (including telephotograph equipment) may be acoustically or inductively connected at the customer's premises to a private line service provided the acoustic or inductive connection is made externally to the network control signaling unit when such unit is provided by the Company.
- b. Communications systems may be acoustically or inductively connected with private line service as specified herein, provided the acoustic or inductive connection is made externally to the network control signaling unit when such unit is provided by the Company.  
  
Communications systems may be connected at premises of the customer, authorized user, or joint user where the customer has a regular and continuing requirement for the origination or termination of communications over the communications system provided that:
  - (1) The normal mode of operation of the communications system shall be to provide communications originating or terminating at the premises on which the connection is made.
  - (2) The connection shall be to channels of a Type number lower than 6000 furnished by the Company.
- c. At the customer's request and where a private line is arranged for joint use as set forth in B103.1.5 of this Tariff, a joint user of such service may acoustically or inductively connect a communications system to such jointly used private line on the same basis as set forth for the customer in b. preceding.
- d. A communications system may be acoustically or inductively connected at the premises of the authorized user with Company facilities for private line service, on which the authorized user has a station, provided that:
  - (1) The normal mode of operation of the communications system shall be to provide communications originating or terminating at the premises on which the connection is made.
  - (2) The customer has a regular and continuing requirement for communications originating or terminating at the authorized user's premises at which the connection is made.
  - (3) The connection shall be to channels of a Type number lower than **6000** furnished by the Company.
  - (4) The connection shall be made on the same basis as set forth for the customer in b. preceding.
  - (5) All communications over the interconnected facilities shall be between the customer and authorized user and relate directly to the customer's business.
- e. Customer-provided tone-type address signaling is permitted through such connections, however, the services of the Company are not designed for such use and the Company makes no representation as to the reliability of address signaling which is performed in such manner.



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## **B2. REGULATIONS**

### **B2.6 Connections (Cont'd)**

#### **B2.6.4 Connections of Terminal Equipment and Communications Systems Not Subject to the FCC Registration Program (Cont'd)**

##### **G. Acoustic or Inductive Connections (Cont'd)**

##### **2. Minimum Protection Criteria**

- a. Since private line services utilize Company channels and equipment in common with other services it is necessary in order to prevent excessive noise and crosstalk that the power of the signal applied to the Company private line service be limited. Because each private line service is individually engineered a single valued limit for all applications cannot be specified. Therefore, the power of the signal which may be applied by the equipment to the interface will be specified by the Company for each application to be consistent with the signal power allowed on the telecommunications network.
- b. To protect other services, it is necessary that the signal which is applied by the equipment to the interface located on the customer's premises meet the following limits at the output of the network control signaling unit:
  - (1) The power in the band from 3,995 Hertz to 4,005 Hertz shall be at least 18dB below the power of the signal as specified in a. preceding.
  - (2) The power in the band from 4,005 Hertz to 10,000 Hertz shall not exceed 16dB below one milliwatt.
  - (3) The power in the band from 10,000 Hertz to 25,000 Hertz shall not exceed 24dB below one milliwatt.
  - (4) The power in the band from 25,000 Hertz to 40,000 Hertz shall not exceed 36dB below one milliwatt.
  - (5) The power in the band above 40,000 Hertz shall not exceed 50dB below one milliwatt.
- c. When there is connection to telecommunications service, to prevent the interruption or disconnection of a call, or interference with network control signaling, it is necessary that the signal applied by the equipment to the Company-provided voice transmitting and receiving equipment located on the customer's premises be limited so that the signal at the output of the Company-provided voice transmitting and receiving equipment shall at no time have energy solely in the 2450 to 2750 Hertz band. If there is signal power at the output of the Company-provided voice transmitting and receiving equipment in the 2450 to 2750 Hertz band, it must not exceed the power present at the same time in the 800 to 2450 Hertz band.

#### **B2.6.5 Channel Derivation Devices**

Customer-provided channel derivation devices which are used to create additional channels in accordance with B2.2.6, may be connected to private line service subject to B2.6.1, B2.6.2, and B2.6.3 preceding.

#### **B2.6.6 Equipment-to-Equipment Connections**

- A. Equipment-to-Equipment connections, as defined in B2.6.1.F, preceding, may be connected to telecommunications services when such arrangements are in compliance with Part 68 of the Federal Communications Commission's Rules and Regulations and this Section B2.6.

#### **B2.6.7 Connections of Certain Facilities of Power, Pipe Line and Railroad Companies**

- A. Facilities of an electric power company, an oil, oil products or natural gas pipe line company, or a railroad company provided primarily to communicate with points located along a right-of-way (including premises of such company anywhere in cities, towns or villages along the right-of-way) owned or controlled by such company may, in lieu of the provisions of B2.6.3 and B2.6.4.D preceding, be connected with service furnished by the Company to the same customer, subject to the following:
  1. Such connections will be made by means of switching or connecting equipment furnished by the Company.
  2. Such customer telephone facilities will be connected to private line services furnished by the Company for voice transmission and utilizing a Series 2000 channel, when furnished to the same customer, for communications with stations associated with such services; provided, however, that facilities of the customer will not be connected to a local or toll central office line to form a through connection except as follows:
    - a. in cases of emergency involving safety of life or property;
    - b. in cases of calls originated by railroad employees under circumstances indicating need for prompt action to secure or maintain the safety, continuity, or reliability of railroad service to the public, and related to the movement of passengers, mail, property, or equipment by railroad, or the repair, maintenance, or construction of railroad rights-of-way, structures, or equipment;

## B2. REGULATIONS

### B2.6 Connections (Cont'd)

#### B2.6.7 Connections of Certain Facilities of Power, Pipe Line and Railroad Companies (Cont'd)

- A. (Cont'd)
2. (Cont'd)
    - c. in cases where the customer facilities serve locations where it is impracticable because of hazard or inaccessibility for the Company to furnish its facilities; and
    - d. during an interim period in cases where the customer has arranged for replacement of said customer facilities with facilities of the Company.
  3. Telecommunications circuits of such companies will be connected to a local or toll central office line to form a through connection only through manual switching equipment, or an attendant's position of dial PBX equipment furnished to the customer by the Company. Such equipment or position may be located at either or both ends of the customer's circuit.
  4. Connection of a telecommunication circuit of such companies as specified in 2.b.c.or d. preceding may be established at either end of such circuit, but shall not be established at both ends simultaneously.
  5. Customer teletypewriter data transmission, remote metering, supervisory control or miscellaneous signaling facilities will be connected to private line service furnished by the Company for such purposes to the same customer.
  6. Company-provided private line services, when connected with facilities of the customer, will not be used for communications of other than the customer, except that such services may be used for the communications of, and be connected with services furnished by the Company to, other companies which:
    - a. are operated with the customer as parts of an integrated electric power, oil, oil products or natural gas system or railroad system under direct or common ownership or control; or
    - b. own or operate an electric power or pipe line or railroad system jointly with the customer; or
    - c. own or operate electric power or pipe line or railroad facilities interconnected with those of the customer.

Company-provided private line services when so connected may be connected to a local or toll central office line to form a through connection for communications of other companies specified in a., b., or c. preceding, including calls originated by employees of such companies only under the circumstances set forth in 2.a. and b. preceding.
  7. Terminal equipment and communications systems connected to the private line services specified in B2.6.2.B preceding in accordance with 1 through 6 preceding prior to January 1, 1980 may remain connected and be moved and reconnected for the life of the equipment without registration unless subsequently modified. New installations of terminal equipment or communications systems subject to Part 68 of the Federal Communications Commission's Rules and Regulations connected to such private line services must meet the requirements of Part 68 of the Federal Communications Commission's Rules and Regulations.
  8. Effective May 1, 1983, new installations of, or additions to, terminal equipment and communications systems subject to Part 68 of the Federal Communications Commission's Rules and Regulations, connected to the private line services specified in B2.6.2.C or D preceding in accordance with 1 through 6 preceding, must meet the requirements of Part 68 of the Federal Communications Commission's Rules and Regulations.

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ISSUED: October 8, 2010

EFFECTIVE: October 8, 2010

## **B2. REGULATIONS**

### **B2.6 Connections (Cont'd)**

#### **B2.6.8 Connections of Certain Facilities of the U. S. Army, Navy, Air Force and NASA**

- A. Facilities of the U. S. Department of the Army, Navy or Air Force and of the National Aeronautics and Space Administration will be connected with services furnished by the Company, in lieu of the provisions of B2.6.3 and B2.6.4.D preceding, as provided in 1. and 2. following, where the Secretary of the appropriate Department or his authorized representative, or the Administrator of the National Aeronautics and Space Administration, or an authorized representative, notifies the Company in writing that such connection is required for reasons of military necessity, or for the control of space vehicles. Such connections will be made by means of switching or connecting equipment furnished by the Company.
1. Telecommunications facilities of the aforesaid Departments or Administration will be connected to private line services furnished by the Company for voice transmission and utilizing a Series 2000 channel for communications with stations associated with such services; provided, however, that such Department or Administration facilities will not be connected to a local or toll central office line to form a through connection except in cases of emergency involving safety of life or property, unless such facilities are provided in locations where it is impracticable for the Company to furnish its services.
  2. Teletypewriter or data transmission, remote metering, supervisory control or miscellaneous signaling facilities of the aforesaid Departments or Administration will be connected to private line services furnished for such purposes.
  3. Terminal equipment and communications systems connected to the private line services specified in B2.6.2.B preceding in accordance with 1. and 2. preceding prior to January 1, 1980 may remain connected and be moved and reconnected for the life of the equipment without registration unless subsequently modified. New installations of terminal equipment or communications systems subject to Part 68 of the Federal Communications Commission's Rules and Regulations connected to such private line services must meet the requirements of Part 68 of the Federal Communications Commission's Rules and Regulations.
  4. Effective May 1, 1983, new installations of or additions to terminal equipment and communications systems subject to Part 68 of the Federal Communications Commission's Rules and Regulations, connected to the private line services specified in B2.6.2.C or D preceding in accordance with 1 and 2 preceding, must meet the requirements of Part 68 of the Federal Communications Commission's Rules and Regulations.

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ISSUED: October 8, 2010

EFFECTIVE: October 8, 2010

## B2. REGULATIONS

### B2.6 Connections (Cont'd)

#### B2.6.9 Connections of Services Furnished by the Company to the Same Customer

A private line furnished by the Company or by the Company and its Other Carriers may be connected to another private line furnished by the Company or by the Company and its Other Carriers or to another service provided by the Company as specified in A. through F. and B2.6.10 following.

- A. A private line may be connected to another private line if the forms of electrical communication for which they are being used are the same. These private lines may be connected (1) at the premises of the customer or joint user; (2) at the premises of an authorized user with a common service point on both private lines.

All connections will be made through connecting arrangements, channel switching arrangements or through switching equipment, except as otherwise provided in B., C., and E. following.

- B. Private lines for audio and television may be connected to the extent specified for Series 6000 channels in B3. following.
- C. Channels created by the customer, authorized user or joint user in accordance with the provisions of B2.2.6.B. preceding may be connected at the customer's, authorized user's or joint user's premises:
1. To channels furnished by the Company and to channels created therefrom as authorized in B2.2.6.B. preceding.  
The connection of channels specified preceding is subject to the regulations contained in B2.6.1, 2., and 3., and B. preceding.
  2. To a Type 10001 channel furnished by the Company, and to channels created therefrom as authorized in B2.2.6.B. preceding.  
The connection of channels specified above is subject to the regulations contained in B2.6.1, B2.6.2, B2.6.3, and B2.6.4 as appropriate.
  3. To station apparatus provided by the Company as a part of a service provided by the Company to the same customer or to a local or toll central office line or WATS access line through such station apparatus.  
The connection described above is subject to the regulations specified in the General Subscriber Service Tariff of the Company as appropriate.
- D. A private line for voice communication utilizing a Series 2000 channel or other Types of channels when used alternately for voice transmission and when in the voice mode, may be connected at a PBX or other switching or connecting arrangement, to a local or toll central office line or WATS access line to form a through connection over the private and exchange lines where facility and conditions permit. It is not contemplated that more than one such type of connection will be established simultaneously and transmission is not represented as adapted to more than one such connection of the combined facilities at one time.

Where terminal equipment or communications systems involve connection to a Type 2230 or Type 10001 channel, such channels may also be connected either on the premises of a customer or authorized user which serves the premises of the customer or authorized user, to a local or toll central office line or WATS access line to form a through connection. When the connection is made on the premises of the customer or authorized user, such connection shall be through switching equipment and shall be made in accordance with the regulations contained in B2.6.1 preceding and the rates and regulations specified in the General Subscriber Service Tariff of this Company.

When a two-point private line or a multi-point private line arranged for service solely between two points utilizing the above type channels is used for transmission of data, through connections over the private and exchange lines may also be established as described preceding.

- E. Type 10001 channels may be connected to private line services either on the premises of the customer or authorized user which serves the premises of the customer or authorized user where the customer has a regular and continuing requirement for the origination or termination of communications over the customer-provided communications system which is extended by the Type 10001 channel provided that:
1. The normal mode of operation of the communications system shall be to provide communications originating or terminating at the premises on which the connection is made.
  2. When the connection is made on the premises of the customer or authorized user, the connection shall be made through switching equipment.
  3. The connection shall be to channels of a Type number lower than 6000, to Series 10000 channels furnished by the Company or to channels created therefrom in accordance with the provisions of B2.2.6.B. preceding.
- F. Series 1000 channels may be connected at the customer's premises to a local or toll central office or a WATS access line through switching equipment. The connection shall be in accordance with B2.6.3.

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ISSUED: October 8, 2010

EFFECTIVE: October 8, 2010

## B2. REGULATIONS

### B2.6 Connections (Cont'd)

#### B2.6.10 Connection of Services Furnished by the Company to Different Customers

- A. A private line furnished to a customer on a twenty-four hour per day, seven day per week basis may be connected:
1. With a private line furnished to a branch or agency of the United States Government for the purposes specified under B. through D. following, provided such connection is authorized by the branch or agency to whose service the connection is made and connections are made by means of connecting or switching arrangements furnished by the Company, or,
  2. With a private line, local or toll central office line or WATS access line furnished to a different customer provided such connection is made at the premises of an authorized user or joint user as specified in E. through H. following, or,
  3. As specified under I. through L. following when connections involve (1) Series 6000 channels, (2) the use of service as related to the coordination or exchange of electrical pooled power, (3) channels of a Type number lower than 6000 when these are furnished for data transmission to one customer with connection to channels created by another customer.
  4. As specified in M. following when private line service is furnished to a state or local government agency and to a United States Government agency, or connections as specified in B. through M. following will be provided only when the same type of channels, (except when local or toll central office or WATS lines as set forth in F. and H. following are involved) are connected and the same forms of electrical communication are used over the connected channels.
- B. Where the private line is furnished to the Government for teletypewriter transmission for the collection and dissemination of (1) weather information, (2) miscellaneous airways information pertaining to the supervision of the flight of aircraft along the civil airways or (3) agricultural and farm market information, connection may be made as follows:
1. Receiving Only Service - for reception of weather and miscellaneous airways information and agricultural and farm market information transmitted over the Government service to which it is connected.
  2. Sending and Receiving Service - for transmission of flight plans to and acknowledgement of such plans from the Government service to which connection is authorized.
- C. Where the private line utilizes Series 2000 channels and is furnished to the Government for data transmission for the collection and dissemination of weather information and for the collection and dissemination of data relating to national defense, connection may be made for such purposes.
- D. Where the private line is furnished to the Government for voice transmission for the collection and dissemination of information relating (1) to air traffic control activities and similar information of public interest in connection with supervision of the flight of aircraft along civil airways or (2) directly to civil defense activities, connection may be made for such purposes.
- E. A private line furnished to a customer may be connected to a private line furnished to a different customer and both private lines may be utilized by a joint user as set forth in B103.1.5 of this Tariff following, provided that:
1. The connection is made at the premises of a party who is a joint user on both of the private lines.
  2. Such connections will be through switching equipment.
  3. When the private lines are so connected, all communications over the interconnected facilities shall be to or from the joint user and relate directly to his business.
- F. A joint user of a private line, as set forth in B103.1.5 of this Tariff, may connect a local or toll central office line, WATS access line or private line provided to him as a customer to that private line on which he is a joint user provided that:
1. The connection is made at the premises of the joint user.
  2. Such connection will be made through switching equipment.
  3. When the connection involves a local or toll central office line or WATS access line, the connection shall be such that the functions of network control signaling are performed by equipment furnished, installed and maintained in compliance with A15.1.3 and B2.6.4.A.2.b. as appropriate.
  4. When the private line is connected with the local or toll central office line or WATS access line, all communications over the interconnected facilities shall be to or from the joint user and relate directly to his business.
- Such private lines shall include channels created by the customer in accordance with B2.2.6.B. preceding.

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## B2. REGULATIONS

### B2.6 Connections (Cont'd)

#### B2.6.10 Connection of Services Furnished by the Company to Different Customers (Cont'd)

- G.** A private line furnished to a customer may be connected to a "different" customer's private line if the "different" customer is an authorized user on the other customer's private line and provided that:
1. all communications over the interconnected private lines are between the customers and relate directly to their business.
  2. Such connections be made through switching equipment.
  3. Neither of the private lines is being furnished for foreign exchange service.
- Such private lines shall include channels created by the customer in accordance with B2.2.6.B. preceding.
- H.** A private line furnished to a customer may be connected to a local or toll central office line furnished to a "different" customer provided that:
1. The customer for the local or toll central office line is an authorized user of the other customer's private line.
  2. The connection shall be made through switching equipment.
  3. The connection shall be such that the function of network control signaling is performed by equipment furnished, installed and maintained by the Company.
- Such private lines shall include channels created by the customer in accordance with B2.2.6.B. preceding.
- I.** Private Lines for audio and video transmission may be connected as provided for Series 6000 channels in B3. following.
- J.** Private line services furnished by the Company for communications as provided in B2.2.1.F. preceding, may be connected with similar services provided by the Company.
- K.** Channels of a Type number lower than 6000 furnished by the Company to one customer may be connected to channels created by another customer from a channel in accordance with B2.2.6.B. preceding, provided the customer whose channel is to be so connected is a joint user of the individual channel from which the channels have been created by the other customer.
- L.** Private lines for teletypewriter transmission furnished to the U. S. Army may be connected to private lines for teletypewriter transmission to the Associated Press and United Press International for the purpose of establishing an Emergency Action Notification System provided that said customers agree to such connection. Connections will be made by means of switching arrangements furnished by the Company.
- M.** Private line service furnished to a state or local government agency may be connected to private line channels arranged for use and ordered by a United States Government Agency for the use of the state or local government agency pursuant to the Intergovernmental Cooperation Act of 1968.

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## B2. REGULATIONS

### B2.6 Connections (Cont'd)

#### B2.6.11 Connection of Services Furnished by the Company with Service of Other Carriers

- A. A communications system provided by an Other Carrier (listed in C. following) referred to as the OC, to a customer, authorized user or joint user of private line services furnished by the Company may be connected at the premises of the customer, authorized user or joint user to the channels of a private line service furnished by the Company where the customer, authorized user or joint user has a regular and continuing requirement for the origination or termination of communications over the OC-provided communication system provided that:
1. The normal mode of operation of the OC-provided communications system shall be to provide communications originating or terminating at the premises at which the connection is made.
  2. The private line service furnished by the Company shall be voice grade.
  3. Where the connection of an OC-provided communications system is by means of a direct electrical connection, such connection shall be made:
    - a. through switching equipment: or
    - b. through a channel derivation device
  4. Where such connection is made through a channel derivation device as specified in b. preceding, the "regular and continuing requirement for the origination or termination of communication" provision in 1. preceding and the provision of A. preceding are not applicable.
  5. When the connection is by means of switching equipment, such switching equipment and the facilities provided by the OC shall be treated as a communications system and the regulations in B2.6.1 through B2.6.4 preceding, as applicable to the connection of communications system shall apply.
  6. When the connection is by means of a channel derivation device, such channel derivation device and the facilities provided by the Other Carrier shall be treated as a communications systems and the regulations applicable to the connection of communications systems as set forth in B2.6 shall apply with the exception of provisions of B2.6.4.D.1.a. and b.
  7. Where the connection of an OC-provided communications system is by means of an acoustic or inductive connection, such connection shall be made externally to Company-provided voice transmitting and receiving equipment.
  8. Where the customer of such OC is an authorized user of a private line service furnished by the Company and such connection is made at the authorized user's premises, all communications over the interconnected facilities shall be between the authorized user and the Company's customer and be related directly to the Company's customer's business.
  9. Connections shall be made only if the forms of electrical communication are the same and consistent with those for which the Company-provided channel is offered. Connections are not represented as being suitable for satisfactory transmission.
  10. All arrangements concerning such OC services shall be made by the customer with that carrier. The furnishing of private line services by the Company as set forth preceding is not part of a joint undertaking with the Other Carrier.
  11. Where private line services furnished by the Company are used in the provision of a composite data service for others and connection of those private line services is made to a communications system provided by an Other Carrier and the connection is made through data switching equipment, the regulations specified in 1. and 5 preceding are not applicable.
- B. The OC's referred to in this Section are:

Carrier

Tariff F.C.C.

PSC No.

## B2. REGULATIONS

### B2.6 Connections (Cont'd)

#### B2.6.12 Connections of Test Equipment

##### A. Totally Protective Connections

1. Test equipment may be connected to those private line services specified in B2.6.2 preceding at the premises of the customer through registered or grandfathered terminal equipment, protective circuitry, or communications systems subject to Part 68 of the Federal Communications Commission's Rules and Regulations which, either singularly or in combination, assures that all of the requirements of Part 68 of the Federal Communications Commission's Rules and Regulations (total protection) are met at the private line service interface.
2. Test equipment may be connected to those private line services specified in B2.6.4.A.2 preceding at the premises of the customer either (1) directly at the private line service interface, or (2) through other equipment, provided that the minimum protection criteria specified in B2.6.4.F preceding is continually met at the private line service interface.

##### B. Interim Program for Connections of Test Equipment

Test equipment may also be connected at the premises of the customer to those private line services specified in B2.6.2 preceding either (1) directly at the private line service interface, or (2) through terminal equipment, protective circuitry, or communications systems subject to Part 68 of the Federal Communications Commission's Rules and Regulations which does not provide protection for signal power control under the following Interim Program provided that:

1. The test equipment is limited to transmission signal power generating and/or detection devices, or similar devices, utilized by the Customer for the detection and/or isolation of a communications service fault.
2. The test equipment is of a type that was lawfully directly connected to private line service as of March 6, 1981. Such test equipment may remain connected, be moved or reconnected during the life of the test equipment unless it has been subsequently modified.
3. Direct connection of test equipment or connections through Company-provided terminal equipment, or communications systems subject to Part 68 of the Federal Communications Commission's Rules and Regulations are made through jacks or as otherwise authorized by the Company.
4. Test equipment must be operated in accordance with the Institutional Procedures for Signal Power Control as specified in (C) following.
5. The Customer notifies the Company of each private line service at each premises to which the test equipment will be connected in advance of the initial connection. The Customer must also notify the Company when such test equipment is permanently disconnected at each premises.
6. No test equipment or combination of test equipment with terminal equipment, protective circuitry or communications systems subject to Part 68 of the Federal Communications Commission's Rules and Regulations (including but not limited to wiring) may cause electrical hazards to Company personnel, damage to Company equipment, malfunction of Company billing equipment, or degradation of service to persons other than the user of the subject test equipment or the user's calling or called party.



## B2. REGULATIONS

### B2.6 Connections (Cont'd)

#### B2.6.12 Connections of Test Equipment (Cont'd)

##### C. Institutional Procedures for Signal Power Control

1. In accordance with (B) (4) preceding, the Customer must comply with the following Institutional Procedures:
  - a. The Customer must install, operate and maintain the test equipment so that its signal power at the private line service interface complies with Subpart D of Part 68 of the Federal Communications Commission's Rules and Regulations.
  - b. The operator(s)/maintainer(s) responsible for the test equipment signal power present at the private line service interface must be trained to perform these functions by successfully completing one of the following:
    - (1) a training course provided by the manufacturer of the test equipment, or
    - (2) a training course provided by the Customer, or authorized representative of the Customer, using training materials and instructions provided by the manufacturer of the test equipment, or
    - (3) an independent training course (e.g., trade school or technical institution) recognized by the manufacturer of the test equipment, or
    - (4) in lieu of the preceding training requirements, the operator(s)/maintainer(s) is under the control of a supervisor trained in accordance with (1) through (3) preceding.

Upon request, the Customer is required to provide proper documentation to demonstrate compliance with the requirements in B2.6.12.C.1.b.
- c. Advance notice must be given to the Company in the form of a notarized affidavit before the initial connection of the test equipment at each premises after April 9, 1981. A copy of the affidavit must also be maintained at the Customer's premises. The affidavit must contain the following information:
  - (1) The full name, business address, business telephone number and signature of the Customer or authorized representative who has responsibility for the operation of the test equipment.
  - (2) The line(s) to which the test equipment will be either connected to or arranged for connection to.
  - (3) A statement that all operations associated with the establishment, maintenance and adjustment of the test equipment signal power present at the private line service interface will comply with Subpart D of Part 68 of the Federal Communications Commission's Rules and Regulations.
  - (4) A statement describing how each operator of the test equipment will meet and continue to meet the training requirements for persons installing, connecting, adjusting or maintaining the test equipment.
2. Extra-ordinary Procedures
  - a. The Company may invoke extra-ordinary procedures to protect the telecommunications network where one or more of the following conditions are present:
    - (1) Information provided in the affidavit gives reason to believe that a violation of Part 68 of the Federal Communications Commission's Rules and Regulations or the Institutional Procedures set forth in (1) preceding is likely.
    - (2) Harm has occurred and there is reason to believe this harm was a result of operations performed under the Institutional Procedures set forth in (1) preceding.
  - b. The extra-ordinary procedures, which can be invoked by the Company, include:
    - (1) Requiring the use of protective apparatus which either protects solely against excessive signal power or which assures that all of the requirements of Part 68 of the Federal Communications Commission's Rules and Regulations are met at the private line service interface.
    - (2) Disconnecting service.

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## **B2. REGULATIONS**

### **2.7 Special Promotions & Competition**

#### **B2.7.1 Regulations**

- A. The Company may offer approved special promotions of new or existing services or products for limited periods as approved by the Public Service Commission. These promotions may be a temporary waiver of certain recurring and/or nonrecurring charges as stated in paragraph. These promotions will be offered on a completely nondiscriminatory basis with each subscriber in the classification of service and area for which the promotion is offered having an equal opportunity for participation.
- B. At its discretion, the Company may waive or reduce any charges in this tariff for competitive purposes.

### **B2.8 Change in Recurring Rates Notification Requirements**

- A. For services offered in this tariff where Price Lists are applicable, the Public Service Commission will be advised by the Company of any price changes at least thirty days prior to the effective date of the price change. Notification of existing customers will be as follows: (a) rate increases - thirty days advance notification, (b) rate decreases - notification coincident with price adjustment.

### **B2.9 Customer Agents**

#### **B2.9.1 General**

- A. The conditions specified herein apply to any entity (hereinafter "agent"), including but not limited to Customer Premises Equipment Providers, Enhanced Service Providers, and Interexchange Carriers acting or purporting to act on behalf of a customer or prospective customer (hereinafter "customer") in transactions with the Company. Such transactions may include, but are not limited to: (1) requests for information about the service or equipment of any customer, (2) negotiations regarding deposits, (3) orders for establishment of or changes in service or equipment, and (4) requests for or inquiries concerning the repair or maintenance of the service or equipment of any customer.

#### **B2.9.2 Responsibility of the Agent**

- A. The agent shall at all times act within the scope of the agent's authority as defined in the agent's agreement with the customer and shall not undertake any transaction with the Company on behalf of any customer unless the agent has been authorized to do so by that customer.
- B. In undertaking any such transactions on behalf of any customer, the agent shall comply with all rules and regulations in this section of this Tariff applicable to the transaction or to the service or equipment to which the transaction pertains.

#### **B2.9.3 Warranty and Liability of the Agent**

- A. By undertaking any transaction with the Company on behalf of a customer, the agent warrants and represents to the Company that the agent has been duly authorized by the customer to act on behalf of the customer in the transaction undertaken. In the event that the customer denies that the agent has acted within the scope of its authority, the agent shall assume responsibility for such transactions and will indemnify and hold the Company harmless from any and all damages, losses, or claims resulting from such dispute or denial by the customer, except for any damages, losses or claims resulting from the Company's willful misconduct, and will pay any and all applicable rates and charges for services rendered or equipment supplied by the Company because of the agent's actions. The foregoing in no way absolves the customer from liability arising from transactions performed by the agent on behalf of the customer.

#### **B2.9.4 Proof of Authority**

- A. When the Company in the reasonable exercise of the Company's discretion believes it appropriate, the Company may request proof of the authority of any party claiming to be the agent of the customer prior to acting upon such request. Failure of the Company to request such proof shall not, however, limit or otherwise affect the agent's responsibility or liability set forth herein, nor shall such a failure constitute a waiver of the Company's right to request such proof at any time in the future.

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## **B3. CHANNELS**

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## B3. CHANNELS

### B3.1 Provision of Service

#### B3.1.1 General

- A. Channel Services provided under the provisions of this Tariff are offered for IntraLATA Services only. Services consisting of Local Channels, Interoffice Channels, and Optional Features and Functions are classified by series. The various series are sub-divided into different types and are described in terms of circuit characteristics and use.
- B. Customers may order local channels which are designed to meet specific communications requirements. The customer is responsible for determining that his terminal equipment is compatible with the service provided by the Company.
- C. Where multi-point service is furnished, the local channels are bridged in the wire center.
- D. Dedicated circuits between the customer's interLATA Electronic Tandem Switching (ETS) Digital Electronic Tandem Switching (DETS) or Tandem Switching Features (TSF) functions and the customer's other location(s) within the same LATA will be provided from this Tariff. Where this service is provided by the Company as a feature of Centrex service, the transport of traffic between the ETS function and the Centrex service function may be performed by the Company's network switching facilities.

#### B3.1.2 Application

The rates and charges specified herein apply for all IntraLATA Private Line services provided by the Company.

#### B3.1.3 Rate Categories

- A. Following are the basic rate categories which apply to Private Line service.
  - 1. Local Channels
    - a. A local channel provides for a communications path between the demarcation point at a customer premises and the serving wire center of that premises. One local channel charge applies per channel termination.
    - b. When service is provided by non-wire center connected channels, a non-wire center connected channel charge applies in lieu of local channel charges.
  - 2. Interoffice Channels
 

This rate category provides for the transmission facilities between serving wire centers associated with two customer premises, between serving wire centers associated with a customer premises and a Company hub, or between two Company hubs.

Interoffice mileage is portrayed in mileage bands. A flat rate and a rate per mile applies to each band. For method of determining mileage, see B3.3.3.A.
  - 3. Non-Wire Center Connected Channels
 

Served Direct channels are provided on a direct basis and are limited to one airline mile in length. These channels will be provided only at the option of the Company.

See Section B103 for charges for channels.
  - 4. Optional Features and Functions
 

This rate category provides for features and functions which may be added to a service to improve its quality or utility to meet specific communications requirements. These are not necessarily identifiable with specific equipment, but rather represent the end result in terms of the performance characteristics which may be obtained. This category includes a. and b. following:

    - a. Hub Functions
 

A hub is a Company designated wire center where bridging or multiplexing functions are performed i.e., connecting three or more customer premises in a multipoint arrangement or channelizing analog or digital services requiring a lower capacity or bandwidth.
    - b. Provides for such things as signaling, conditioning, transfer arrangements, protection switching, etc.

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## **B3. CHANNELS**

### **B3.1 Provision of Service (Cont'd)**

#### **B3.1.4 Service Configurations**

- A. There are two types of service configurations which can be provided. These are described as follows:
  - 1. Two-Point Service  
A two-point service connects two customer premises either directly through a serving wire center(s) or through a Company hub where additional functions are performed.
  - 2. Multipoint Service
    - a. Multipoint service connects three or more customer premises through a Company hub.
    - b. There is no limitation on the number of mid-links available with multipoint service. However, when more than three mid-links are provided in tandem, the quality of the service may be degraded. A mid-link is a channel between hubs (i.e., bridging locations).
    - c. Voice Grade (Series 2000) Multipoint Channel services for data use have a limit of 6 two-wire facility type local channels or 20 four-wire facility type local channels when used with customer-provided station equipment. These units do not apply to Select-A-Station Service or Telemetry/Alarm Bridging Service (TABS).
    - d. Only certain types of service are available for multipoint applications. These are so designated in the service descriptions set forth in B3.2 following.

#### **B3.1.5 Special Routing of IntraLATA Channels**

- A. The private line services furnished in this Tariff are provided over such routes as the Company may elect.
- B. Special routing is involved where, in order to comply with requirements specified by the customer, the Company furnishes the private line service in a manner which includes one or both of the following conditions:
  - 1. Where two or more private lines must be furnished over different physical routes.
  - 2. Where a private line must be furnished on a route which avoids specified geographical locations.
- C. When special routing of services is furnished a customer, the rates will be determined on an individual case basis.

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## B3. CHANNELS

### B3.2 Service Descriptions (Cont'd)

#### B3.2.1 Voice Grade Service - Series 2000

- A. Series 2000 voice grade service provides for voice and/or data communications on a two point or multipoint basis for service 7 days per week, 24 hours per day, for a minimum period of one month. These channels may also be furnished on a link (partial channel) basis when connected to services such as DS1 channel service and/or Fiber service. Channels which provide Tie Line Service will not be furnished to connect a flat rate system with a message rate system. The transmission characteristics and various types of services furnished within this Series are described in B. and C. following.
- B. Basic parameters and specifications for Series 2000 voice grade service are described for the end to end operation as follows:

Basic Parameters	For Speech Application	For Data Application
Net Loss	Local Channels used with terminal equipment: Limit as specified in the following Local Channel descriptions. Losses or gains present in CPE have not been included.	
DC Resistance	Local Channel limit as specified in the following Local Channel descriptions. Does not imply or guarantee end to end DC continuity.	
Frequency Error	Plus or Minus 5 Hz	Plus or Minus 5 Hz
Frequency Response	(Referenced to 1000 Hz Loss)	
300 - 3000 Hz	-3dB to + 12dB	-3dB to +12dB
500 - 2500 Hz	-2dB to + 8dB	-2dB to + 8dB
Envelope Delay Distortion		
800 - 2600 Hz	Not Controlled	Less than 1750 Microseconds

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## B3. CHANNELS

### B3.2 Service Descriptions (Cont'd)

#### B3.2.1 Voice Grade Service - Series 2000 (Cont'd)

##### B. (Cont'd)

Basic Parameters	For Speech Application	For Data Application
C-Notched Noise (with a -13dBm0 1000 Hz Test Signal)	Not Controlled	Noise level 24dB below signal level
Impulse Noise	Not Controlled	15 Counts in 15 minutes at a threshold of 6dB below a -13dBm0 rms 1000 Hz Signal
Phase Jitter	Not Controlled	10 degrees peak to peak
Non-Linear Distortion		
2nd Order Distortion	Not Controlled	25dB below signal level
3rd Order Distortion	Not Controlled	30dB below signal level

##### C. Transmission parameters for voice grade service are described following:

1. Type 2230 - A two-wire interface with effective two-wire facilities engineered for a 1004 Hz net loss of 0 to 10dB. Generally furnished for voice transmission - Private Line Telephone, Mobile Radio Telephone, or Supervisory Control Use. Multipoint service may be provided at charges specified in B3.4.4.A. following.
2. Type 2231 - A two-wire interface with two or four-wire facilities engineered for a 1004 Hz net loss of 0dB to 4.5dB. This is generally used for PBX (or similar system) main or extension station services. Signaling is required for this service.
3. Type 2432 - A two or four-wire interface with effective four-wire facilities engineered for tie line service use between PBX's or customer-provided communications systems. Signaling is required for this service.
4. Type 2434 - A two or four-wire interface for connection to the serving wire center where loop facilities are not required. This channel is suitable for tie line service (with E&M signaling) between Centrex Type Services Systems and may be connected with Type 2432 local channels.
5. Type 2435 - A four-wire interface with effective four-wire facilities engineered for a 1004 Hz net loss of 0 to 16db. Generally furnished for voice transmission. Multipoint service may be provided at charges specified in B3.4.4.A. following.
6. Type 2260 - A two-wire<sup>1</sup> interface with effective two-wire facilities engineered for a 1004 Hz net loss of 16dB. Generally used in the provision of low speed (1200 baud or less) half duplex data services.
7. Type 2261 - A two-wire interface with effective two-wire facilities engineered for use in Select-A-Station Service or Telemetry/Alarm Bridging Service (TABS).
8. Type 2462 - A four-wire interface with effective four-wire facilities engineered for use in Select-A-Station Service, or Telemetry/Alarm Bridging Service (TABS).
9. Type 2463 - A four-wire interface with four-wire facilities engineered for a 1004 Hz net loss of 16dB. Generally used in the provision of analog data services. Multipoint service may be provided at charges specified in B3.4.4.A. following.
10. Type 2464 - A two-wire interface with four-wire facilities engineered for a 1004 Hz net loss of 16dB. Generally used in the provision of analog data services. Multipoint service may be provided at charges specified in B3.4.4.A. following.

**Note 1:** Transmission data characteristics can only be met and guaranteed for the two-wire interface when the airline distance from the serving wire center to the customer's premises is one mile or less and the interoffice channel is not greater than 4 airline miles between serving wire centers.

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## B3. CHANNELS

### B3.2 Service Descriptions (Cont'd)

#### B3.2.1 Voice Grade Service - Series 2000 (Cont'd)

##### D. Signaling Arrangements

###### 1. Off Premises Stations

- a. For use with PBX (or similar system) off-premises channels for terminal equipment. Signaling arrangements are furnished for grandfathered and registered PBX (or similar) systems in accordance with Part 68 of the FCC Rules and Regulations or for customer-provided communications systems not subject to Part 68 of the FCC Rules and Regulations.

Type A - Furnished for use with Class A PBX (or similar) system station ports capable of operation over loops with resistance in the range of 0-199 ohms.

Type B - Furnished for use with Class B PBX (or similar) system station ports capable of operations over loops with resistance in the range of 200-899 ohms.

Type C - Furnished for use with Class C PBX (or similar) system station ports capable of operation over loops with resistance in the range of 900 ohms or more.

- b. For connections to registered or grandfathered PBX (or similar) system equipment, the customer must specify the equipment capability for use with Type A, B, or C Signaling Arrangements.

###### 2. Tie Lines

- a. E&M signaling is provided for use with tie line channels with E&M signaling interfaces. Signaling Arrangements are furnished for grandfathered and registered PBX's in accordance with Part 68 of the FCC Rules and Regulations or for customer-provided communications systems not subject to Part 68 of the FCC Rules and Regulations.

- An E&M Signaling Arrangement is required for each tie line termination, operating in a Dial Repeating mode, at a customer's premises with a registered PBX.

- An E&M Signaling Arrangement is required for each tie line termination at a customer's premises with grandfathered PBX's when the tie line is arranged with an E&M signaling interface.

- An E&M Signaling Arrangement is required with Types 2432 and 2434 channels for additions to or for new installations of grandfathered PBX equipment when not arranged with an E&M signaling interface.

- An E&M Signaling Arrangement is required for each Type 2432 or 2434 channel termination at a customer's premises with a customer-provided communications system not subject to Part 68 of the FCC Rules and Regulations when arranged with an E&M signaling interface.

##### E. Select-A-Station Service

Select-A-Station Service is a multistation, voice grade private line data system designed to establish point-to-point connections rapidly between a master station and a number of remote stations one at a time. Direct transmission between remote stations is not possible, nor is simultaneous communications from the master to more than one remote station possible.

###### 1. Regulations

The regulations specified herein are in addition to the regulations contained in Section B2 of this Tariff.

- a. Select-A-Station Service requires the use of equipment as described herein and type 2261 or 2462 voice grade local channels as described in B3.2.2.C.
- b. The Company will furnish, subject to availability of facilities, Select-A-Station Service channels suitable for voice grade data transmission.
- c. Select-A-Station channels are not provided for alternate voice-data transmission or DC continuity.
- d. The customer shall provide terminal equipment in accordance with interface specifications as described in Technical Reference PUB 41014, "Data Communications Using Dataphone® Select-A-Station Service."

2. A Primary Data Station Selector, PDSS, provides the connection between the master station and any one of up to 128 (125 for addressable operations) two-wire or four-wire voice grade data channels. Where more than one DSS is required, the DSS that is directly connected to the master station (SCU) is termed the Primary Data Station Selector (PDSS). Additional DSS's designated Secondary Data Station Selectors (SDSS) connected to the PDSS, may be provided.



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## B3. CHANNELS

### B3.2 Service Descriptions (Cont'd)

#### B3.2.1 Voice Grade Service - Series 2000 (Cont'd)

E. Select-A-Station Service (cont'd)

3. A Selector Control Unit, SCU, will be provided at the master station location. The SCU is used by the customer to transmit control and/or address signals to the DSS's and to receive supervisory signals from DSS's.
4. Select-A-Station Service arranged for the sequential mode of operation requires customer specification, prior to installation, of the order of connections from the DSS to the remote stations. The customer also must specify one of the following three DSS options to accommodate customer operating procedures and circuit structure:
  - a. Automatic Step<sup>1</sup>  
A DSS option in which the duration and order of connections are fixed.
  - b. Automatic Step with Reset<sup>1</sup>  
A DSS option in which the duration and order of connections are fixed, but the DSS will reset to the beginning of the connection cycle upon command from the master station.
  - c. Controlled Step  
A DSS option which allows the customer to have in-service control over the duration of the connection. However, the order of connections is fixed.
5. Select-A-Station Service arranged for addressable operation provides for the duration and order of connections to be variables, controlled by the master station.
6. Access from the PDSS to the SCU is obtained through a Type 2462 local channel. PDSSs located outside of the serving wire center where the SCU is located will require voice grade interoffice channels at charges as contained in B3.4.3 of this Tariff.
7. Access to each remote station from the DSS is obtained through a Type 2261 or 2462 local channel. Remote stations located outside of the serving wire center where the DSS is located will require voice grade interoffice channels at charges as contained in B3.4.3 of this Tariff.
8. Access to each SDSS from the PDSS is obtained through a Type 2261 or 2462 local channel. A SDSS located outside of the serving wire center where the PDSS is located will require voice grade interoffice channels at charges as contained in B3.4.3. of this Tariff.

**Note 1:** A DSS optioned for automatic step or automatic step with reset cannot be connected to a secondary DSS.

## PRIVATE LINE SERVICE TARIFF

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**B3. CHANNELS****B3.2 Service Descriptions (Cont'd)****B3.2.1 Voice Grade Service - Series 2000 (Cont'd)****F. Telemetry/Alarm Bridging Service (TABS)**

1. Regulations
  - a. This Tariff section contains the regulations applicable for Telemetry/Alarm Bridging Service (TABS)
  - b. Except as otherwise specified following, the regulations contained herein are in addition to the regulations found in other sections of this Tariff.
  - c. TABS requires the use of equipment as specified herein and Type 2261 or 2462 voice grade local channels described in C. preceding.
  - d. Terminal equipment provided by the customer for use with TABS must meet specifications for such customer-provided equipment found in other sections of this Tariff.
  - e. No more than 128 remote stations may be connected to a master station over an individual Split Band Active Bridge.
  - f. In Split Band Active Bridging arrangements, secondary bridges must be directly connected to the primary bridge via mid-link channels. Secondary bridges cannot be connected through other secondary bridges to allow additional layers of tandeming.
  - g. Secondary bridges, utilized in Split Band, Active Bridging arrangements, reduce the two-wire remote station capacity of the primary bridge. The initial secondary bridge reduces the primary bridge capacity by twelve two-wire remote station connections. Each subsequent secondary bridge reduces the primary bridge capacity by four additional two-wire remote station connections.
  - h. Standard multipoint bridging charges as provided in other sections of this Tariff are not applicable to TABS.
  - i. Access over four-wire master station channels for Split Band Active Bridging is provided using a Type 2462 local channel.
  - j. Access over remote station channels is provided through a Type 2261 local channel and through the appropriate channel connection as contained in B3.4.4.A.1.e. following. Interconnection of remote stations located outside the serving wire center where the bridge to which they are to be connected is located will require interoffice channels at charges contained in B3.4.3. of this Tariff.
  - k. Access over each four-wire mid-link channel for Split Band Active Bridging is through voice grade interoffice channels at charges contained in B3.4.3. of this Tariff. Additionally, mid-link channel connections are required as described in B3.4.4.A.1.e. following.
2. Service Description
  - a. Telemetry/Alarm Bridging Service is a multi-station, voice frequency, private line service designed to provide connections between a master station and a number of remote stations simultaneously. Direct transmission between remote stations is not intended. This service is intended for application in multipoint, voice frequency, data or tone signaling arrangements with transmission at rates up to 400 baud.
  - b. TABS is provided in the following arrangement:  
Split Band, Active Bridging - A bridging arrangement providing for a four-wire (master station or mid-link channel) frequency split common port and multiple two-wire (remote station) ports intended for application in multipoint, voice frequency, data or tone signaling arrangements. Two-way (polling) communication between the master station and each remote station is intended.

**B3.2.2 Wired Music Service - Series 6000**

- A. Series 6000 private line service provides for one way audio transmission for use in connection with loudspeaker and sound recording equipment. Channels are furnished for operation on a two point or multipoint basis for service 7 days per week, 24 hours per day, for a minimum period of one month. These channels are arranged for use with customer-provided station equipment only.
- B. Channels for audio and wired music are furnished only directly to the customer originating the program material. The Company does not allocate charges between, nor collect charges from the patrons of the customer. The customer is responsible for the payment of all charges for channels furnished to him by the Company.

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## B3. CHANNELS

### B3.2 Service Descriptions (Cont'd)

#### B3.2.2 Wired Music Service - Series 6000

##### C. Audio Channels

1. Audio private line channels are specially equipped channels provided for the closed circuit (non-broadcast) transmission of voice and music signals in one direction only for operation on a two-point basis.  
Any of the following arrangements may be provided as a two-point audio private line service:
  - a. Two local channels in the same wire center area connected together at the serving central office.
  - b. Two local channels not in the same wire center area connected by an interoffice channel.
  - c. One local channel feeding a music distribution amplifier when the music source is in the same wire center area as the distribution amplifier.
  - d. One local channel and an interoffice channel feeding a music distribution amplifier when the music source is not in the same wire center area as the distribution amplifier.
  - e. One interoffice channel connecting music distribution amplifiers in different wire center areas.
2. The various types of services furnished as audio channels are described as follows:
  - a. Type 6210 - A two-wire interface with effective two-wire facilities without equalization or specified transmission loss which provides for connection from the wired music studio. Signaling applied by customer-provided equipment must be within the criteria as described in the Technical Reference "Transmission Specifications for Private Line Metallic Circuits" (Pub 43401).
  - b. Type 6211 - A two-wire interface with effective two-wire facilities engineered for a 1000 Hz maximum loss of 12dB without equalization.
  - c. Type 6212 - A two-wire interface engineered for a 1000 Hz maximum loss of 12dB and equalized to + or - 1dB of the 1000 Hz loss from 100 to 5000 Hz.
  - d. Type 6213 - A two-wire interface engineered for a 1000 Hz maximum loss of 12dB and equalized to + or - 1dB of the 1000 Hz loss from 50 Hz to 8000 Hz.

##### D. Wired Music Multipoint Distribution Channels

1. Wired music multipoint distribution private line channels are specially equipped channels provided for the closed circuit (non-broadcast) transmission of voice and music signals in one direction only for operation on a multipoint basis.
2. A wired music multipoint distribution service consists of one or more distribution amplifiers feeding multiple wired music local channels within a wire center area. Local channels and interoffice channels required to connect the music source to the wired music multipoint distribution system or to connect distribution amplifiers in separate wire centers are provided as two point audio channels.
  - a. Distribution amplifiers provided by the Company are required to receive signals from a source provided by the customer and to transmit the appropriate signal level to the multiple wired music local channels which the amplifiers may feed. Distribution amplifiers are provided at the serving wire center.
  - b. Wired music local channels are furnished within a wire center area between the premises of the patrons of the wired music service and the distribution amplifier located in the serving wire center.
3. The various types of services furnished as wired music channels are described as follows:
  - a. Type 6214 - A two-wire interface with effective two-wire facilities without equalization or specified transmission loss which provides for connection to the wired music patron's location. Signaling applied by customer-provided equipment must be within the criteria as described in the Technical Reference "Transmission Specifications for Private Line Metallic Circuits" (PUB 43401).
  - b. Type 6215 - A two-wire interface with effective two-wire facilities engineered for a 1000 Hz maximum loss of 14dB without equalization.
  - c. Type 6216 - A two-wire interface engineered for a 1000 Hz maximum loss of 14dB and equalized to + or - 4dB of the 1000 Hz loss from 100 to 5000 Hz.
  - d. Type 6217 - A two-wire interface engineered for a 1000 Hz maximum loss of 14dB and equalized to + or - 4dB of the 1000 Hz loss from 50 Hz to 8000 Hz.

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## B3. CHANNELS

### B3.3 Rate Regulations

#### B3.3.1 Types of Rates and Charges

A. The two types of rates and charges are monthly rates and nonrecurring charges and are described as follows:

1. Monthly Rates

Monthly rates are recurring charges that apply each month or fraction thereof that a service is provided. For billing purposes, each month is considered to have 30 days.

2. Nonrecurring Charges

Nonrecurring Charges are one-time charges that apply for a specific work activity. The three types of nonrecurring charges that apply are installation of service, installation of features and functions and service rearrangements.

a. Installation of Service

Nonrecurring charges apply for each service terminated at the customer's premises. For the installation of local channels when more than one of the same type of service, between the same locations, for the same customer is ordered and installed at the same time, one at each location is billed at the First Service Installed rate and the others are billed at the Additional Service Installed rate.

The nonrecurring charges for the Installation of Services are set forth in B3.4 following as Nonrecurring Charges for the Local Channel and Interoffice Channel rate elements.

b. Nonrecurring charges apply for the installation of features and functions available with the various services. For some features and functions there is a lower charge if installed coincident with the service and a higher charge if installed subsequent to the service.

c. Service Rearrangements

(1) Service rearrangements are changes to existing (installed) services which do not result in either a change in the minimum period requirements or a change in the physical location of the point of termination at a customer premises. Changes which result in the establishment of new minimum period obligations are treated as disconnects and starts. Changes in the physical location of the point of termination are treated as moves and are described and charged for as set forth in B3.3.2.

The charge to the customer for the service rearrangement is dependent on whether the change is administrative only in nature or involves actual physical change to the service.

Administrative changes will be made without charge(s) to the customer. Such changes require the continued provision and billing of the Private Line Service to the same entity (i.e., customer remains responsible for all outstanding indebtedness for the service). Administrative changes are as follows:

- Change of customer name (i.e., the customer of record does not change but rather the customer of record changes name),
- Change of customer or customer's premises address when the change of address is not a result of a physical relocation of equipment.
- Change in billing data (name, address or contact name or telephone number).

(2) All other service rearrangements will be charged for as follows:

- If the change involves the addition of other customer designated premises to an existing multipoint service, the nonrecurring charge for the local channel rate element will apply. The charges will apply only for the location(s) that is being added.
- If the change involves the addition of an optional feature or function which has a separate nonrecurring charge, that nonrecurring charge will apply.
- If the change involves changing the type of signaling on a voice grade service the subsequent, nonrecurring charge will apply for the new type signaling. The charge will apply per service termination affected.
- For all other changes, including a change of the customer of record involving no physical changes to the service provided or the addition of optional features without separate nonrecurring charges, a charge equal to a local channel rate element nonrecurring charge will apply. Only one such charge will apply per service, per change.

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## B3. CHANNELS

### B3.3 Rate Regulations (Cont'd)

#### B3.3.2 Moves

- A. A move involves a change in the physical location of one of the following:
1. The point of interface at the customer premises.
  2. The customer's premises.
- B. The charges for the move are dependent on whether the move is to a new location within the same building or to a different building.
1. Moves Within the Same Building  
When the move is to a new location within the same building, the charge for the move will be an amount equal to one-half the nonrecurring (i.e., installation) charge for the affected service termination at the customer's premises. There will be no change in the minimum period requirements. If a move is made at the same time a service rearrangement is made, the total charge will never exceed a full nonrecurring charge for the basic service.
  2. To a Different Building  
Moves to a different building will be treated as a discontinuance and start of service and all associated nonrecurring charges will apply. New minimum period requirements will be established at the new location. The customer will also remain responsible for satisfying all outstanding minimum period charges for the discontinued service.

#### B3.3.3 Mileage Measurement

- A. When station locations of a private line service are located in different wire center serving areas, interoffice channel charges apply. Charges are based on the direct airline distance measured between the serving wire centers. Mileage is determined in accordance with the following:
1. Obtain the "V" and "H" coordinates for each wire center, as listed in the National Exchange Carrier Association Tariff F.C.C. No. 4.
  2. Obtain the difference between the "V" coordinates of the two wire centers. Obtain the difference between the "H" coordinates. (The difference is always obtained by subtracting the smaller coordinate from the larger coordinate.)
  3. Square each difference obtained in 2. preceding.
  4. Add the squares of the "V" difference and the "H" difference obtained in 3. preceding.
  5. Divide the sum of the squares obtained in 4. preceding by 10.
  6. Obtain the square root of the result obtained in 5. preceding. This is the rate distance in miles. (Fractional miles being considered as full miles.)

EXAMPLE: The rate distance is required between City One and City Two.

	V	H
City One	7260	2083
City Two	7364	1865
Difference	104	218
Squared	10,816 + 47,524	= 58,340

58,340 divided by 10 = 5834

Square root of 5834 = 76.38 = 77 Airline miles

- B. When a private line is furnished over facilities which the Company elects to provide on a direct basis and is not routed through a central office, one two-point channel charge from B3.4.2 will apply. The arrangement is limited to channels not more than one airline mile in length.
- C. For the purpose of applying multipoint charges, the bridging or hubbing locations are determined by that combination of airline distances connecting the serving wire center which will produce the lowest interoffice mileage charges. Bridging charges apply when three or more channels connect at the same location.
- D. For Series 1000, 2000 and 6000 channels the customer may specify the sequence in which the service points are to be connected in which case the rate mileage is the shortest airline mileage determined in accordance with paragraph C. preceding which will connect the wire centers of the service points in the specified sequence.

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## B3. CHANNELS

### B3.4 Rates and Charges

#### B3.4.1 Local Channels

		Monthly Rate	Nonrecurring Charge		USOC
			First	Additional	
<b>A.</b>	Voice Grade				
	Per point of termination				
1.	Voice				
	(a) Type 2230	\$ 34.56	\$496.80	\$165.60	P2JUX
	(b) Type 2231	51.84	496.80	165.60	P2JHX
	(c) Type 2432	95.04	561.60	208.80	P2JQX
	(d) Type 2434	29.90	237.60	119.52	P2JGX
	(e) Type 2435	95.04	532.80	187.20	P2JWX
	(f) Type 2261	90.20	835.20	352.80	P2JLX
	(g) Type 2462	93.90	813.60	338.40	P2JRX
2.	Data				
	(a) Type 2260	51.84	597.60	230.40	P2JKX
	(b) Type 2463	103.68	597.60	230.40	P2JMX
	(c) Type 2464	180.60	590.40	223.20	P2JNX
<b>B.</b>	Wired Music				
1.	Per point of termination				
	(a) Type 6210	73.00	806.40	331.20	P6JJX
	(b) Type 6211	73.00	806.40	331.20	P6JAX
	(c) Type 6212	93.90	928.80	432.00	P6JBX
	(d) Type 6213	104.50	950.40	453.60	P6JCX
	(e) Type 6214	73.00	806.40	331.20	P6JKX
	(f) Type 6215	73.00	806.40	331.20	P6JEX
	(g) Type 6216	93.90	928.80	432.00	P6JNX
	(h) Type 6217	104.50	950.40	453.60	P6JGX

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## B3. CHANNELS

### B3.4 Rates and Charges (Cont'd)

#### B3.4.2 Interoffice Channels<sup>1</sup>

		<b>Fixed Monthly Rate</b>	<b>Monthly Rate Per Mile</b>	<b>Nonrecurring Charge</b>	<b>USOC</b>
<b>A.</b>	Fixed and Mileage Charges applicable, per channel				
1.	Sub Voice Grade - Series 1000 (Obsoleted, See Section B103.)				
2.	Voice Grade Service - Series 2000				
	(a) 1 thru 8 Miles	<i>\$ 180.60</i>	<i>\$7.40</i>	<i>\$ 151.20</i>	<b>3LBBS</b>
	(b) 9 thru 25 Miles	<i>180.60</i>	<i>7.40</i>	<i>151.20</i>	<b>3LBBS</b>
	(c) Over 25 Miles	<i>180.60</i>	<i>7.40</i>	<i>151.20</i>	<b>3LBBS</b>
3.	Wired Music - Series 6000 3.0 kHz Types 6210, 6211, 6214 and 6215				
	(a) 1 thru 8 Miles	<i>104.50</i>	<i>4.10</i>	<i>119.52</i>	<b>3LBBS</b>
	(b) 9 thru 25 Miles	<i>104.50</i>	<i>4.00</i>	<i>119.52</i>	<b>3LBBS</b>
	(c) Over 25 Miles	<i>104.50</i>	<i>3.90</i>	<i>119.52</i>	<b>3LBBS</b>
4.	Wired Music - Series 6000 5 kHz Types 6212 and 6216				
	(a) 1 thru 8 Miles	<i>104.50</i>	<i>8.40</i>	<i>108.00</i>	<b>3LBDS</b>
	(b) 9 thru 25 Miles	<i>104.50</i>	<i>8.20</i>	<i>108.00</i>	<b>3LBDS</b>
	(c) Over 25 Miles	<i>104.50</i>	<i>8.00</i>	<i>108.00</i>	<b>3LBDS</b>
5.	Wired Music - Series 6000 8 kHz Types 6213 and 6217				
	(a) 1 thru 8 Miles	<i>146.10</i>	<i>12.70</i>	<i>108.00</i>	<b>3LBES</b>
	(b) 9 thru 25 Miles	<i>146.10</i>	<i>12.40</i>	<i>108.00</i>	<b>3LBES</b>
	(c) Over 25 Miles	<i>146.10</i>	<i>12.20</i>	<i>108.00</i>	<b>3LBES</b>

**Note 1:** For method of determining mileage, see B3.3.3.A.

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## B3. CHANNELS

### B3.4 Rates and Charges (Cont'd)

#### B3.4.3 Optional Features and Functions

##### A. Bridging

Bridging charges are applicable where more than two Local Channels, or one or more Local Channels and more than one Interoffice Channel, or more than one Local Channel and one Interoffice Channel are bridged or hubbed at the same wire center. No additional bridging charges are applicable for Series 1000, Types 1204 and 1205.

	<b>Nonrecurring Charge</b>	<b>Monthly Rate</b>	<b>USOC</b>
1. Voice Grade Bridges (Series 2000)			
a. Voice Bridging			
(1) Per Port			
(a) Two-Wire (Type 2230)	\$ 56.16	\$ 30.00	BQ9
(b) Four-Wire (Type 2435)	56.16	35.00	BQ9
b. Data Bridging			
(1) Per Port			
(a) Four-Wire (Types 2463 and 2464)	61.92	50.10	BQ9
c. Select-A-Station Bridging - Primary Data Station Selector			
(1) Sequential Arrangement			
(a) Common Equipment	331.20	360.00	DSG++
(2) Addressable Arrangement			
(a) Common Equipment	367.20	360.00	D7S
(3) Channel Connections			
(a) Per two-wire connection	57.60	7.20	DSK
(b) Per four-wire connection	63.36	21.60	DSP
d. Select-A-Station Bridging - Secondary Data Station Selector			
(1) Sequential Arrangement			
(a) Common Equipment	331.20	360.00	DSQ++
(2) Addressable Arrangement			
(a) Common Equipment	367.20	360.00	D7Y
(3) Channel Connections			
(a) Per two-wire connection	57.60	7.20	DSR
(b) Per four-wire connection	63.36	21.60	DSZ
e. Telemetry and Alarm Bridging - Split Band, Active Bridging			
(1) Common Equipment, per central office			
(a) First bridging shelf, capacity of 48 two-wire connections	365.00	145.20	XW1
(b) Additional bridging shelf, capacity of 56 two-wire connections installed subsequent to the first bridging shelf	330.00	145.20	XW2



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### B3. CHANNELS

#### B3.4 Rates and Charges (Cont'd)

##### B3.4.3 Optional Features and Functions (Cont'd)

	Nonrecurring Charge	Monthly Rate	USOC
<b>A. Bridging (Cont'd)</b>			
1. Voice Grade Bridges (Series 2000) (Cont'd)			
e. Telemetry and Alarm Bridging			
- Split Band, Active Bridging (Cont'd)			
(1) Common Equipment, per central office (Cont'd)			
(c) Additional bridging shelf, capacity of 56 two-wire connections installed at the same time as the first bridging shelf	\$205.00	\$60.50	XW8
(2) Channel connections, per channel connected			
(a) Remote station channel connection	40.00	3.60	XW3
(b) Mid-link channel connection, first channel	47.00	12.10	XW4
(c) Mid-link channel connection, subsequent channels	47.00	12.10	XW5
2. Wired Music Bridges (Series 6000)			
a. Distribution Amplifiers			
(1) Per Port			
(a) Each	50.40	2.88	6LE

#### **B. Signaling Arrangements**

Signaling arrangements are provided at the customer's option to arrange channels for suitable signaling. Signaling is required on all off-premises extension channels and tie line channels associated with PBX (or similar) systems.

##### 1. Per local channel

	Monthly Rate	Nonrecurring Charge		USOC
		Initial	Subsequent	
(a) Ringdown - Manual	\$ 19.10	\$60.48	\$309.60	SL3
(b) Ringdown - Automatic	20.90	21.60	106.56	SL5
(c) E&MType	20.90	61.92	273.60	SLM
(d) Type A (0-199 ohms)	10.40	60.48	201.60	SAL
(e) Type B (200-899 ohms)	10.40	59.04	201.60	SAU
(f) Type C (900 or more ohms)	5.10	15.84	201.60	SAY

#### **C. Conditioning (Voice Grade Services)**

- Conditioning provides more specific transmission characteristics for data services. There are two types of C-conditioning and one type of D-conditioning, each with different technical specifications. C-Type conditioning controls attenuation distortion and envelope delay distortion. D-Type conditioning controls the signal to C-notched noise ratio and intermodulation distortion.

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**B3. CHANNELS****B3.4 Rates and Charges (Cont'd)****B3.4.3 Optional Features and Functions (Cont'd)****C. Conditioning (Voice Grade Services) (Cont'd)****1. (Cont'd)**

Conditioning is charged for on a per Local Channel basis for two-point and multi-point service. For two-point services the parameters apply to each service. For multipoint services the parameters apply to any path between any two service points.

**2. The types and description of the available conditioning options are as follows:**

<b>Type Conditioning</b>	<b>Frequency Response Specification</b>	<b>Envelope Delay Distortion Specification</b>	
C1 (two-point or multipoint)	300-2700 Hz, -2dB to +6dB. 1000-2400 Hz, -1dB to +3dB.	1000-2400 Hz, less than 1000 microseconds	
C2 (two-point or multipoint)	300-3000 Hz, -3dB to +12dB. 300-3000 Hz, -2dB to +6dB. 500-2800 Hz, -1dB to +3dB.	1000-2600 Hz, less than 500 microseconds 600-2600 Hz, less than 1500 microseconds 500-2800 Hz, less than 3000 microseconds	
		<b>Non-Linear Distortion</b>	
		<b>2nd Order Distortion</b>	<b>3rd Order Distortion</b>
D1 (two-point)	Noise level 28dB below signal level	35dB below signal level	40dB below signal level

**3. When a channel is equipped with Type D1 conditioning and is utilized for voice communications, the Company does not undertake to represent that the channel will be suitable for such voice transmission.****4. C-Type Conditioning**

a. C-Type Conditioning is available for Types 2463 and 2464.

	<b>Monthly Rate</b>	<b>Nonrecurring Charge</b>		<b>USOC</b>
		<b>Initial</b>	<b>Subsequent</b>	
(1) C-Types of Conditioning per local channel				
(a) C1-Type	<b>\$5.10</b>	<b>\$14.40</b>	<b>\$122.40</b>	<b>P2W</b>
(b) C2-Type	<b>5.10</b>	<b>31.68</b>	<b>135.36</b>	<b>P3W</b>
5. D-Type Conditioning				
a. D-Type Conditioning is available for Types 2463 and 2464.				
(1) D-Type Conditioning per local channel				
(a) D1-Type	<b>5.10</b>	<b>21.60</b>	<b>128.16</b>	<b>QHA</b>

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## B5. CONSTRUCTION CHARGES

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## B5. CONSTRUCTION CHARGES

### B5.1 General

- A. Special charges in the form of installation charges, monthly charges, or both are applied in addition to all rates and charges quoted in the other sections of this tariff when, because of sporadic or occasional nature of the service or an unusual investment or expense, the revenue does not reasonably compensate the Company - as for example:
  - 1. The facilities are provided in remote or undeveloped sections outside the base rate area.
  - 2. Conditions require the provision of special equipment or unusual methods of plant construction, installation or maintenance.
  - 3. The customer's location requires the use of costly private right-of-way.
- B. Title to all construction provided wholly or partly at a customer's expense is vested in the Company, except as specified in B5.2.A. and B5.3.A. following.
- C. For special equipment and arrangements furnished in connection with private line service, charges equivalent to the estimated cost of furnishing such equipment or arrangements apply. Estimated cost consists of an estimate of the following items to the extent that they are applicable:
  - 1. Cost of maintenance.
  - 2. Cost of operation.
  - 3. Depreciation on the estimated cost installed of any facilities provided, based on the anticipated useful service life of the facilities with an appropriate allowance for the estimated net salvage.
  - 4. Administration, taxes and uncollectible revenue on the basis of reasonable average charges for these items.
  - 5. Any other specific items of expense associated with the particular situation.
  - 6. A reasonable amount, computed on the estimated cost installed of any facilities provided, for return and contingencies.

Estimated cost installed as mentioned in 3. and 6. above includes cost of equipment and material specifically provided or used plus the estimated cost of installing, including engineering, labor, supervision, transportation, rights-of-way and any other items which are chargeable to the capital accounts of the Company.
- D. When attachments are made to poles of other companies, in lieu of providing construction for which the customer would be charged under the provisions hereof, the costs of the Company for such attachments are borne by the customer.
- E. The customer is required to pay construction charges as made by another company providing facilities connecting with the facilities of the Company.

### B5.2 Special Type of Construction

- A. When underground service connections are desired by customers as initial installations in places where aerial drop wires would ordinarily be used to reach the customer's premises, or when aerial facilities are used to provide service or channels to a customer and subsequently the customer desires that such facilities be placed underground, the following regulations apply.
  - 1. Where cable is placed in conduit, the underground conduit shall be constructed and maintained by or at the expense of the customer and in addition the customer shall pay the cost of the underground cable, including the cost of installing it, less the estimated cost to the Company of installing such aerial facilities as would be (or are) required to furnish the same service. The underground conduit shall be constructed in accordance with plans and specifications furnished by the Company. Ownership of such conduit is vested in the customer and necessary replacements shall be made by him.

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## **B5. CONSTRUCTION CHARGES**

### **B5.2 Special Type of Construction (Cont'd)**

- A. (Cont'd)
  - 2. The duct or ducts required in the underground conduit by the Company to furnish service shall be reserved for its exclusive use.
  - 3. Where armored cable is laid in a trench, the trench shall be constructed and backfilled by or at the expense of the customer. In addition, the customer shall pay the cost of the cable, including the cost of installing it, less the estimated cost to the Company of installing such aerial drop as would be (or is) required to furnish the same service.
  - 4. Cable placed in conduit provided by a customer will be maintained and replaced at the expense of the Company where the conduit has been inspected in place by the Company and approved, but repairs or replacements of cable in conduit not so inspected and approved, or repairs or replacements of cable in conduit or trench made necessary by damages caused by the customer or his representatives will be made only at the customer's expense.
  - 5. Where facilities are changed from aerial to underground, in addition to the above the customer is charged the cost of dismantling and removing the aerial facilities.

### **B5.3 Poles on Private Property**

- A. Poles to be used in serving only a particular customer and located on his premises shall in all cases be furnished and maintained by him or at his expense and shall conform to the Company's specifications. Ownership of such poles on private property is vested in the customer and necessary pole replacements shall be made by him.
- B. Poles on private property to be used to serve more than one customer or to be used as a part of the standard distributing plant serving customers in general are furnished, maintained and owned by the Company, subject to such construction charge as may be applicable.
- C. Circuits on poles on private property are furnished, owned and maintained by the Company.

### **B5.4 Circuitous Routing or Special Types of Construction**

When circuitous routing or special type of construction is provided at the customer's request, in cases where facilities would ordinarily be provided without construction charge to the customer, the excess cost of special construction is borne by the subscriber.

### **B5.5 Payment of Construction Charges**

Construction charges are payable at the time application for service is signed or when the account is rendered, at the option of the Company.

### **B5.6 Special Service Arrangements**

#### **B5.6.1 General Descriptions and Rates**

- A. Where practicable, special equipment and arrangements, not otherwise provided for in this Tariff, are furnished if they are in accord with authorized service offerings and if they are to be used in connection with and not detrimental to any of the services furnished by the Company. Charges for such special service arrangements will be based on the estimated costs of furnishing them.
- B. Initial service periods exceeding one month may be necessary for facilities and equipment provided under a special service arrangement.

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## B5. CONSTRUCTION CHARGES

### B5.6 Special Service Arrangements (Cont'd)

#### B5.6.1 General Descriptions and Rates (Cont'd)

- C. The rates, charges and contract terms for the following items have been established as specified above to meet the particular requirements of certain subscribers. Inclusion of the rates and codes herein in no way constitutes authorization for any subscriber other than those specified.

1. South Carolina State Government

(a). This Special Service Arrangement provides for a variety of circuits available for use by the customer.

- i. Frame Relay Service is a connection-oriented data transport service based on packet switching technology. Frame Relay Service provides flexible connectivity using Permanent Virtual Circuits (PVCs) implemented over digital facilities operating at transmission speeds from 56 Kbps to 1.536 Mbps.
- ii. Metro Ethernet Service is a high-speed packet transport that is based on Ethernet transmission parameters. Metro Ethernet Service provides various transport capabilities that range from 2 Mbps through 1 Gbps with capabilities for basic, premium, dedicated and virtual arrangements that may be used to meet individual customer needs.
- iii. DS1 service is a service for the transmission of digital signals only and uses only digital transmission Facilities. DS1 service provides for the simultaneous two-way transmission of isochronous digital signals at DS1 speeds of 1.544 mbps, where facilities are available.

(1) Service Establishment Charge

	Nonrecurring	Monthly	
	Charge	Rate	USOC
(a) Per arrangement	\$ -	\$ -	NA

(2) Circuit Charges

(a) Frame Relay 256 Kbps	-	211.20	NA
(b) DS1 (Basic Unmanaged)	-	300.00	NA
(c) DS1 (Standard Unmanaged)	-	300.00	NA
(d) Metro Ethernet 4Mbps Premium	-	500.00	NA
(e) Metro Ethernet 10Mbps Fixed	-	531.25	NA
(f) Metro Ethernet 10Mbps Burst	-	531.25	NA
(g) Metro Ethernet 20Mbps Premium	-	736.95	NA
(h) Metro Ethernet 100Mbps Burst	-	1,080.00	NA

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## **B5. CONSTRUCTION CHARGES**

### **B5.7 Contract Service Arrangements**

#### **B5.7.1 General**

- A. When economically practicable, customer specific contract service arrangements may be furnished in lieu of existing tariff offerings provided there is reasonable potential for uneconomic bypass of the Company's services. Uneconomic bypass occurs when an alternative service arrangement is utilized, in lieu of Company services, at prices below the Company's rates but above the Company's incremental costs. Pursuant to Order No. 84-804, this Tariff will remain in effect unless otherwise modified or removed by authorization of the Public Service Commission.
- B. Rates, Charges, Terms and additional regulations, if applicable, for the contract service arrangements will be developed on an individual case basis, and will include all relevant costs, plus an appropriate level of contribution.
- C. Unless otherwise specified, the regulations for contract service arrangements are in addition to the applicable regulations and rates specified in other sections of this Tariff.

#### **B5.7.2 Rates and Charges**

- A. The following is a list of rates and charges to subscribers requiring contract service arrangements.

## **B7. DIGITAL NETWORK SERVICE**

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## **B7. DIGITAL NETWORK SERVICE**

### **B7.1 DS1 Service**

#### **B7.1.1 General**

- A. DS1 service is furnished for Private Line IntraLATA Communications by the Company.
- B. DS1 service is a service for the transmission of digital signals only and uses only digital transmission facilities.
- C. DS1 service provides for the simultaneous two-way transmission of isochronous digital signals at DS1 speeds of 1.544 mbps, where facilities are available.
- D. To ensure satisfactory operation, the terminal equipment provided by the customer must be compatible with the DS1/1.544 Mbps channel facility provided by the Company.
- E. Unless specified following, the regulations for DS1 service specified herein apply in addition to the regulations set forth in Section B2. of this Tariff.
- F. The rates specified for DS1 service in B7.1.3 following, contemplate the provision of a digital quality facility utilizing existing interoffice carrier equipment and/or exchange cable facilities compatible with this service. If such equipment, new facilities or changes to existing facilities are required for the provision of this service, a special construction charge based on the cost incurred to make the changes will apply in addition to the rates for DS1 service.

#### **B7.1.2 Regulations**

##### **A. Description of Service**

- 1. DS1 service is furnished for the simultaneous two-way transmission of serial, Bipolar, Return-to-Zero (BPRZ) isochronous digital signals, except where intentional bipolar violations are introduced by Bipolar with 8 Zero Substitution (B8ZS) format, at a speed of DS1/1.544 Mbps between two-points located within a LATA.
- 2. Multipoint service is not available.
- 3. DS1 service is available on a month-to-month basis.
- 4. Connection of DS1/1.544 Mbps communications systems provided by others may be made on a permissive basis as provided for in Section B2., the Company does not represent its DS1 service as adapted for such connections, and shall not be responsible for the through transmission of signals, or the quality of such transmission on such connections.
- 5. A Channel Service Unit (CSU) or appropriate Termination Equipment (TE) provided by the customer is required at a customer's or authorized user's premises to perform such functions as:
  - proper termination of the service
  - amplification
  - signal shaping
  - remote loop-back
- 6. The design, maintenance and operation of DS1 service contemplates communications originating and terminating as (1) a customer premises to customer premises channel via the Company's Serving Wire Center, (SWC) - and/or through remote SWCs; (2) a customer premises to the Serving Wire Center - and/or to remote SWCs - partial channel (link); or (3) a central office to central office (interoffice) partial channel (link).
- 7. DS1 service may also be furnished on a link (partial channel) basis when connected to Centrex Type Services<sup>1</sup>, DS1 Plus service, DS1 channel Services, and/or another DS1 service.
- 8. All appropriate rates specified in other tariff sections are in addition to the monthly rate per package or single channel for DS1 service specified in this Tariff.

Note 1: Connection from DS1 service and DS1 Plus service to Centrex Type Services may not be available from all serving wire centers.

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## **B7. DIGITAL NETWORK SERVICE**

### **B7.1 DS1 Service (Cont'd)**

#### **B7.1.2 Regulations (Cont'd)**

##### **B. Definitions**

###### **CHANNEL SERVICE UNIT**

The term "Channel Service Unit" (CSU) denotes equipment provided by the Customer to terminate a digital facility on the customer's or user's premises.

###### **DS1**

This denotes a channel service expressed in terms of its digitally encoded data bit rate in accordance with the North American hierarchy of digital signal levels. It has a 1.544 Mbps transmission data rate, and provides for the two-way simultaneous transmission of isochronous timed, Bipolar Return-to-Zero (BPRZ) bit stream format, except where intentional bipolar violations are introduced by Bipolar with 8 Zero Substitution (B8ZS) format. Unframed signal formats are not permitted or compatible with Company equipment.

###### **DIGITAL LOCAL CHANNEL**

The term "Digital Local Channel" denotes a path for DS1 service furnished from the demarcation point on a customer's premises, to their Serving Wire Center.

###### **INTEROFFICE CHANNEL**

The term "Interoffice channel" denotes a path (or paths) for digital transmission between Company Serving Wire Centers within a LATA. An interoffice channel may be furnished in such manner as the Company may elect.

##### **C. Application of Rates**

1. Digital Local Channels furnished between a Serving Wire Center and the customer's premises will be charged at rates based on the first 1/2 mile and each additional 1/2 mile for the airline distance measured between the customer's premises and their Serving Wire Center.
2. Interoffice Channels furnished between Central Offices will be charged at rates based on airline distance between the Central Offices.
3. DS1 service is available on a month-to-month basis.
4. Airline distance between Company central offices shall be developed using the methodology found in B3.3.3 of this Tariff. Fractional mileage shall be rounded up to the next full mile.

##### **D. Connections**

1. Customer-Provided Terminal Equipment, Customer-Provided Derivation Equipment and Customer-Provided Communications Systems may be connected to DS1 service when such connection is made in accordance with the provision specified in 2., 3., and 4. following.
2. Responsibility of the Company
  - a. The responsibility of the Company shall be limited to the furnishing and maintenance of DS1 service to a network interface on the customer's premises where provision is made for the connection of local service.
  - b. The Company shall not be responsible for installation, operation, or maintenance of any terminal equipment or communications systems provided by a customer. DS1 service is not represented as adapted for the use of such equipment or system. Where such equipment or system is connected to Company facilities the responsibility of the Company shall be limited to the furnishing of facilities suitable for DS1 service and to the maintenance and operation in a manner proper for such digital service. The Company shall not be responsible for:
    - the through transmission of signals generated by such equipment or system, or for the quality of, or defects in, such transmission or
    - the reception of signals by such equipment or systems, or
    - damage to terminal equipment or communications systems provided by a customer or authorized user due to testing.
  - c. The Company shall not be responsible to the customer if changes in any of the facilities, operations or procedures of the Company utilized in the provision of DS1 service render any facilities or equipment provided by a customer obsolete, or require modification or alteration of such equipment or system or otherwise affects its use or performance.
  - d. The Company undertakes to maintain and repair the facilities which it furnishes. The customer may not rearrange, disconnect, remove or attempt to repair any equipment installed by the Company without prior written consent of the Company.

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## B7. DIGITAL NETWORK SERVICE

### B7.1 DS1 Service (Cont'd)

#### B7.1.2 Regulations (Cont'd)

##### D. Connections (Cont'd)

##### 3. Responsibilities of the Customer

- a. The customer is responsible for installing and testing his premises equipment or facilities to insure that when they are connected to DS1 service such equipment or facilities are operating properly.
- b. The operating characteristics of the customer premises equipment or facilities shall be such as to not interfere with any of the services offered by the Company. Such use is subject to the further provisions that the equipment provided by a customer does not: endanger the safety of Company employees or the public; damage, require change in or alteration of the equipment or other facilities of the Company; interfere with the proper functioning of such equipment or facilities; impair the operation of the Company's facilities or otherwise injure the public in its use of the Company's services. Upon notice that the equipment provided by a customer is causing or is likely to cause such hazard or interference, the customer shall take such steps as shall be necessary to remove or prevent such hazard or interference.
- c. The customer's responsibility shall include cooperative testing with the Company as may be necessary. Where regeneration and/or equalization adjustments or changes may be required to compensate for rearrangements and/or changes in outside plant facilities, the customer will be responsible for all expenses incurred in changes to his premises equipment.

##### 4. Connection of Customer-Provided Terminal Equipment, Customer-Provided Derivation Equipment and Customer-Provided Communications Systems.

- a. The following provisions will apply:
  - (1) Customer-Provided Terminal Equipment and/or Customer-Provided Communications Systems may be connected at the premises of the customer to DS1 service.
  - (2) The customer by use of its own derivation equipment, may create digital bit streams from a DS1 service and such equipment may be connected for transmission of such bit streams when connected thru a customer-provided CSU/TE.
  - (3) The undertaking of the Company is to furnish DS1 service as ordered and specified by the customer as specified in d. following.
- b. Connections to Other Services Furnished by the Company to the Same Customer  
DS1 service furnished by the Company may be connected by the customer to another service or to other services furnished by the Company as specified in D.2 preceding. Connected services are subject to all rules and regulations governing the provisioning of those services.
- c. Connections to other services furnished by the Company to different customers  
The customer may connect at the premises of the customer to another DS1 service or other services furnished by the Company to different customers as specified in D.2. preceding. Connected services are subject to all rules and regulations governing provisioning of those services.
- d. Connection of Channel Service Units  
A Channel Service Unit (CSU) or appropriate Termination Equipment (TE) must be provided by the customer to connect a Company-provided digital facility. In accordance with Part 68 of the FCC's Rules and Regulations, new grandfathered CSU/TEs may be connected, moved, and reconnected until June 30, 1987. After this date only registered and previously connected grandfathered CSU/TEs may be connected to Company-provided digital facilities.

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## **B7. DIGITAL NETWORK SERVICE**

### **B7.1 DS1 Service (Cont'd)**

#### **B7.1.2 Regulations (Cont'd)**

##### **E. Features**

##### **1. Clear Channel Capability**

- a. Clear Channel Capability (CCC) is an arrangement that alters a DS1/1.544 Mbps signal with unconstrained information bits, to meet pulse density requirements outlined in Technical Reference 73525. This will allow a customer to transport an all zero octet over a DS1 service channel providing an available combined maximum 1.536 Mbps data rate. This arrangement requires the customer signal at the channel interface to conform to Bipolar with 8 Zero Substitution (B8ZS) line code as described in Technical Reference 73525.
- b. CCC is provided on DS1 service channels between two customer designated premises, from a customer premises to their Serving Wire Center or Node Central Office and/or to a remote Serving Wire Center or Node Central Office, and from a Central Office to a Central Office, and is subject to the availability of facilities. This optional feature may be ordered at the same time the DS1 service channel is ordered, or it may be ordered as an additional feature of an existing DS1 service channel.
- c. When providing CCC via a DS3/44.736 Mbps High Capacity channel, that DS3 channel must be designated, in Company records, as having Clear Channel Capability prior to the provisioning of a DS1/1.544 Mbps High Capacity channel with CCC. Customers must agree to out-of-service periods required to add this feature to an existing DS1 service channel to be optioned for B8ZS.

##### **F. Payment Arrangements and Credit Allowance**

1. The minimum period for which DS1 service is furnished and for which charges are applicable is one month.
2. Suspension of service is not allowed.
3. When DS1 service is interrupted, due to causes other than negligence of the customer, or to the failure of facilities or equipment furnished by the customer, a credit allowance will be made upon request for the portion of service affected. For the purpose of determining the amount of allowance, every month is considered to have thirty days. All credit allowances shall begin from the time of notice by the customer to the Company, and will end when the service is operative. No credit is allowed for interruptions to service of less than thirty minutes. Interruptions of thirty minutes or more are credited to the customer at the proportionate monthly rate in half-hour multiples for each half-hour, or major fraction thereof, of interruption. A customer must report the outage in order to receive service outage credit. The total credit received in any month shall not exceed the monthly rate for the service.

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**B7. DIGITAL NETWORK SERVICE****B7.1 DS1 Service (Cont'd)****B7.1.3 Rates and Charges**

- A. A Digital Local Channel is furnished between a Serving Wire Center and the customer's premises. Rates are based on the airline distance between the Serving Wire Center and the customer's premises.

1. Digital Local Channel, each<sup>1</sup>

		<b>Nonrecurring Charge</b>	<b>Month To Month</b>	<b>USOC</b>
(a)	First 1/2 Mile	<b>\$300.00</b>	<b>\$110.00</b>	<b>1LDPZ</b>
(b)	Each additional 1/2 Mile, or fraction thereof	-	<b>39.00</b>	<b>1LDPA</b>

- B. Interoffice Channels are furnished between Central Offices. Rates are based on the airline distance between central offices.<sup>1,2</sup>

1. Interoffice Channel, each channel 0-8 miles

(a)	Fixed Monthly Rate	<b>125.00</b>	<b>60.00</b>	<b>1LNO1</b>
(b)	Each Airline Mile, or fraction thereof	-	<b>30.00</b>	<b>1LNOA</b>

2. Interoffice Channel, each channel 9 - 25 miles

(a)	Fixed monthly rate	<b>125.00</b>	<b>92.50</b>	<b>1LNO2</b>
(b)	Each airline mile or fraction thereof	-	<b>38.20</b>	<b>1LNOB</b>

3. Interoffice Channel, each channel over 25 miles

(a)	Fixed monthly rate	<b>125.00</b>	<b>119.00</b>	<b>1LNO3</b>
(b)	Each airline mile or fraction thereof	-	<b>37.00</b>	<b>1LNOC</b>

- C. Clear Channel Capability is furnished on a per DS1 service channel basis.

1. Per DS1 service channel optioned as:

		<b>Monthly Rate</b>	<b>Nonrecurring Charge</b>		<b>USOC</b>
			<b>Initial</b>	<b>Subsequent</b>	
(a)	Superframe Format (SF)	\$-	\$-	<b>\$605.00</b>	<b>CCOSF</b>
(b)	Extended Superframe Format (ESF)	-	-	<b>605.00</b>	<b>CCOEF</b>

**Note 1:** DS1 ISDN service, specified in B107.5 of this Tariff references rates and charges for this rate element.

**Note 2:** Refer to the B3.3.3 of this Tariff, for mileage measurement methodology.

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EFFECTIVE: October 8, 2010

**B7. DIGITAL NETWORK SERVICE****B7.1 DS1 Service (Cont'd)****B7.1.3 Rates and Charges (Cont'd)****D. Move Charge**

A move charge, per DS1 service channel, applies for each Digital Local Channel moved to a new location in the same building. This move charge is equal to the sum of the Digital Local Channel Nonrecurring Charge, Service Change Charge - Inside Moves, and Premises Visit Charge.

A move charge, per DS1 service channel under CSPP, applies for each DS1 service moved to a new location in Company territory within the same state. This move charge is equal to the sum of all nonrecurring charges applicable to a new DS1 service channel installation at the new location.

**E. Service Connection Charges**

1. Service Establishment Charges are applicable, for each DS1 service channel<sup>1</sup> ordered, for receiving and recording information and/or taking action in connection with a customer's request, and processing the necessary data. These charges include engineering design, common centralized testing and coordination.
2. Service Change Charges are applicable for receiving and recording information and/or taking action in connection with a customer's Inside Move or transfer of service responsibility request, for processing the necessary data on an existing DS1 service channel.<sup>1</sup> A Service Change Charge is applicable for each DS1 service channel<sup>1</sup> associated with the customer request (in lieu of a Service Establishment Charge).
3. Premises Visit Charges are applicable, per Digital Local Channel, for the termination of a channel at a customer's premises or for inside moves. Only one Premises Visit Charge applies when more than one channel service of the same type is terminated or moved at the same premises at the same time.
4. Connection charges are applicable for the connection and testing of Digital Local Channels and/or Interoffice Channels. The charges applied are those nonrecurring charges contained in A. and B. preceding.
5. Charges for DS1 service

## a. Service Establishment Charge

- (1) Per DS1 service channel<sup>1,2</sup>

**Nonrecurring  
Charge**  
**\$575.00**

**USOC**  
**MGLSE**

## (a) Each

## b. Service Change Charge

- (1) Per DS1 service channel<sup>1,2</sup>

## (a) For Inside Moves, each

**350.00****MGL1M**

## (b) Per Transfers of Responsibility, each

**50.00****MGLTR**

## c. Premises Visit Charge

- (1) Per Digital Local Channel  
or for an Inside Move<sup>2,3</sup>

## (a) Per Visit

**35.00****MGLPV**

**Note 1:** Refer to B7.1.2.A.7. of this Tariff for description of DS1 service channels.

**Note 2:** DS1 ISDN service, specified in B107.5 of this Tariff references rates and charges for this rate element.

**Note 3:** This charge is applicable to additional stations subsequently installed in a building.

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ISSUED: October 8, 2010

EFFECTIVE: October 8, 2010

## B7. DIGITAL NETWORK SERVICE

### B7.2 Digital Data Service (DDS)

#### B7.2.1 General

- A. Digital Data Service (DDS) is furnished for IntraLATA Communications by the Company.
- B. The service is provided for the transmission of digital signals only and is furnished only via digital transmission facilities.
- C. DDS service provides for the simultaneous two-way transmission of synchronous digital signals at speeds of 2.4, 4.8, 9.6, 19.2, 56 and 64 Kbps between customer locations where appropriate digital facilities for this service are available as determined by the Company.
- D. Multipoint Service, Secondary Channel Capability and/or Data Over Voice Channel may not be available in all DDS service locations.
- E. To ensure satisfactory operation, the terminal equipment provided by the customer must be compatible with the channel facility provided by the Company.
- F. Unless specified following, the regulations for DDS service specified herein apply in addition to the regulations set forth in Section B2. preceding.
- G. The rates specified for DDS service are in B7.2.3 following. The Company will provide a digital facility over existing interoffice carrier equipment and/or transmission facilities compatible with DDS service. If new equipment and facilities or changes to existing facilities are required to provide for DDS service, a special construction charge based on the cost incurred to make the changes may apply in addition to these rates.
- H. DDS service is available on a month-to-month basis or under contract plans as described in B7.2.2.F. following.

#### B7.2.2 Regulations

##### A. Description of Service

- 1. Service is furnished for the simultaneous two-way transmission of digital signals at synchronous rates of 2.4, 4.8, 9.6, 19.2, 56 and 64 Kbps between two points or more located within a LATA. This service may also be furnished on a link (partial channel) basis<sup>1</sup> when connected to DS1 channel service and/or FiberRing service.
- 2. Service is furnished for duplex operation only.
- 3. A minimum initial service period of 3 months is required.
- 4. The design, maintenance and operation of DDS service contemplates communications originating or terminating at stations of the customer. While connections to communications systems provided by others may be made on a permissive basis as provided for in Section B2., the Company does not represent this service as adapted for such connections, and shall not be responsible for the through transmission of signals, or the quality of such transmission on such connections.
- 5. A Channel Service Unit provided by the customer is required at a customer's premises to perform such functions as:
  - proper termination of the service
  - amplification
  - signal shaping
  - remote loop-back

##### B. Definitions

###### CHANNEL SERVICE UNIT

The term "Channel Service Unit" (CSU) denotes equipment provided by the customer to terminate a digital facility on the customer's or Other Common Carrier's premises.

###### DATA OVER VOICE CHANNEL

The term "Data Over Voice Channel" denotes a digital data channel derived from a two-wire local exchange facility that transmits voice and data signals simultaneously. A Data Over Voice Channel is provided at the speed of 9.6 Kbps and is furnished between a wire center and the demarcation point on the customer's premises over the customer's existing local exchange facility. The Data Over Voice Channel option may be used in lieu of a Digital Local Channel. Terminal equipment to support the Data Over Voice Channel must be provided by the customer.

###### DIGITAL LOCAL CHANNEL

The term "Digital Local Channel" denotes a path for DDS service furnished from the serving wire center to the demarcation point on the customer's premises.

**Note 1:** This also applies when the Data Over Voice Channel option is used.

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## B7. DIGITAL NETWORK SERVICE

### B7.2 Digital Data Service (DDS) (Cont'd)

#### B7.2.2 Regulations (Cont'd)

##### B. Definitions (Cont'd)

###### DIGITAL INTEROFFICE CHANNEL

The term "Digital Interoffice Channel" denotes a path (or paths) for digital transmission between Serving Wire Centers and Node Central Offices or between Node Central Offices, within a LATA. An interoffice channel may be furnished in such manner as the Company may elect.

###### DIGITAL LOCAL CHANNEL

The term "Digital Local Channel" denotes a path for DDS service furnished from the Serving Wire Center to the demarcation point on a customer's premises.

###### MULTIPOINT SERVICE

The term "Multipoint Service" denotes a service which provides communications capability between more than two private line station locations by means of a bridging or hubbing arrangement. For the provision of DDS service the bridging or hubbing arrangement shall be located at the Node Central Office.

###### NODE CENTRAL OFFICE

The term "Node Central Office" denotes that physical location the Company has designated as a test, maintenance and monitoring center to service one or more Serving Wire Centers. There may be more than one Node Central Office within a LATA.

###### SECONDARY CHANNEL CAPABILITY

The term "Secondary Channel Capability" denotes the offering of a companion digital transmission capability over the same physical facility as the primary channel at a lower bit rate. Terminal equipment required to support secondary channel capability must be provided by the customer.

###### SERVING WIRE CENTER

The term "Serving Wire Center" denotes the local telephone central office assigned to subscribers in a well defined area. A Serving Wire Center may be further designated by the Company as a Node Central Office.

##### C. Method of Applying Rates

1. A Digital Local Channel is furnished between a Serving Wire Center and the demarcation point on the customer's premises.
2. Node Terminations are applied to each termination within the Node Central Office. A charge is applicable for each Local Channel and/or Digital Interoffice channel connected within a Node Central Office.
3. A Digital Interoffice Channel will be required when a Digital Local Channel originates from a Serving Wire Center that is not a Node Central Office. The rate is based on airline mileage, or fraction thereof, between the Serving Wire Center and the Node Central Office.
4. A Digital Interoffice Channel will be required between Nodes when a customer has a requirement to connect premises located in separate Nodal Service Areas. The rate is based on airline mileage, or fraction thereof, between Node Central Offices.<sup>1</sup>
5. Airline distance between Company central offices are to be developed from V&H coordinates listed in Section E10. of the Intrastate Access Service Tariff. Fractional miles are to be rounded up to the next full mile.
6. A Data Over Voice Channel at 9.6 Kbps is available as an optional feature and may be used in lieu of a 9.6 Kbps DDS service Digital Local Channel. The customer must also subscribe to a compatible two-wire local exchange line (e.g., business exchange line). This two-wire exchange line and its associated rates and charges are in addition to the Data Over Voice Channel rates and charges. Node Termination charges apply per Data Over Voice Channel. Interoffice channel mileage charges apply between the customer's serving wire center and the node central office if the customer's serving wire center is not a node office.

A Data Over Voice Channel may be used in a two-station arrangement and a multipoint arrangement.

##### D. Connections

1. Customer-Provided Terminal Equipment, Customer-Provided Derivation Equipment and Customer-Provided Communications Systems may be connected to DDS service when such a connection is made in accordance with the provision specified in 2. and 3. following.

**Note 1:** When customer premises terminations are located in wire centers assigned to different primary nodes, interoffice channel mileage will be calculated from each Serving Wire Center to its assigned primary node, and interoffice channel mileage will also be calculated for the distance between the two primary nodes in the routing sequence.



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## B7. DIGITAL NETWORK SERVICE

### B7.2 Digital Data Service (DDS) (Cont'd)

#### B7.2.2 Regulations (Cont'd)

##### D. Connections (Cont'd)

2. The responsibility of the Company shall be limited to the furnishing and maintenance of service to a network interface on the customer's premises where provision is made for the connection of local service. If the customer requires a different location in the same building, it can be provided under B7.2.5.B.1. of this Tariff. The customer is responsible for installing and testing his premises equipment or facilities to insure that when they are connected with the DDS service such equipment or facilities are operating properly.
3. The customer responsibility shall include cooperative testing with the Company as may be necessary. Where regeneration and/or equalization adjustments or changes may be required to compensate for rearrangements and/or changes in outside plant facilities, the customer will be responsible for all expenses incurred in changes to his premises equipment.
4. Connection of Customer-Provided Terminal Equipment, Customer-Provided Derivation Equipment and Customer-Provided Communications Systems.
  - a. The following provisions will apply:
    - (1) Customer-Provided Terminal Equipment, Customer-Provided Communications Systems may be connected at the premises of the customer, to DDS service.
    - (2) The customer, by use of its own derivation equipment, may create digital bit streams from DDS service. Such equipment may be connected for transmission of such bit streams when connected through a customer-provided CSU.
  - b. Connections to Other Services Furnished by the Company to the Same Customer  
 DDS service as furnished by the Company may be connected to another service or to other services furnished by the Company as specified following:
    - (1) At the premises of the customer to Series 2000 analog data channels furnished under the rates and regulations of this Company's Tariff.
  - c. Connections to other services furnished by the Company to different customers  
 DDS service as furnished by the Company to a customer may be connected at the premises of the customer to other services furnished by the Company to different customers as specified in D.2. preceding.
  - d. Connection of Channel Service Units  
 A Channel Service Unit (CSU) must be provided by the customer to connect a Company-provided digital facility. In accordance with Part 68 of the FCC's Rules and Regulations, new grandfathered CSUs may be connected, moved, and reconnected until June 30, 1987. After this date only registered and previously connected grandfathered CSUs may be connected to Company-provided digital facilities.  
  
 Grandfathered CSU equipment must comply with the requirements outlined in the Bell System Technical Reference Publication 62310, dated September, 1983. This publication is now available from Publishers' Data Center, Inc., P.O. Box C738, Pratt Street Station, Brooklyn, New York 11205. Registered technical requirements for CSUs are outlined in Part 68 of the FCC's Rules and Regulations. A copy may be obtained from the Federal Communications Commission, Room BB300, Washington, D. C. 20054.
  - e. Customer provided terminal equipment for the Data Over Voice Channel must be compatible with the Company provided terminating equipment at the central office.
  - f. Responsibility of the Company
    - (1) The Company shall not be responsible for installation, operation or maintenance of any terminal equipment or communications systems provided by a customer. DDS service is not represented as adapted to the use of such equipment or system. Where such equipment or system is connected to Company facilities the responsibility of the Company shall be limited to the furnishing of facilities suitable for DDS service and to the maintenance and operation in a manner proper for such digital service. The Company shall not be responsible for:
      - the through transmission of signals generated by such equipment or system, or for the quality of, or defects in such transmission or
      - the reception of signals by such equipment or systems, or
      - damage to terminal equipment or communications systems provided by a customer due to testing.

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**B7. DIGITAL NETWORK SERVICE****B7.2 Digital Data Service (DDS) (Cont'd)****B7.2.2 Regulations (Cont'd)****D. Connections (Cont'd)**

## 4. (Cont'd)

## f. Responsibility of the Company (Cont'd)

- (2) The Company shall not be responsible to the customer if changes in any of the facilities, operations or procedures of the Company utilized in the provision of DDS service render any facilities or equipment provided by a customer obsolete, or require modification or alteration of such equipment or system or otherwise affects its use or performance.
- (3) The Company undertakes to maintain and repair the facilities, which it furnishes. The customer may not rearrange, disconnect, remove or attempt to repair any equipment installed by the Company without prior written consent of the Company.
- (4) The Company has set a design objective of 99.5 percent error free seconds of operation at all speeds with DDS service. This objective does not apply when the Data Over Voice Channel option is used in a circuit design.
- (5) The Data Over Voice Channel is provided subject to the availability of appropriate network facilities and equipment and subject to the transmission limitations of facilities and equipment used by the Company.

**E. Payment Arrangements and Credit Allowance**

1. The minimum period for which service is furnished and for which charges are applicable is 3 months.
2. Suspension of service is not allowed.
3. When service is interrupted due to causes other than the negligence of the customer, or the failure of facilities furnished by the customer, a credit allowance will be made upon request for the portion of the service, which is affected. For the purpose of determining the amount of allowance every month is considered to have 30 days and only those stations on the interrupted portions of a service shall be considered in determining the number of stations affected. All such credit allowances shall begin from the time of notice by the customer to the Company that an unsatisfactory performance level has occurred, provided that the customer promptly releases the service as requested by the Company to perform testing and maintenance.
  - a. Interruptions of less than three hours - no credit is applied.<sup>1</sup>
  - b. Interruptions of three hours or over are credited to the customer at the proportionate monthly charge in half-hour multiples for each half-hour or major fraction thereof of interruption.
  - c. Interruption for a period of twenty-four hours or more, credit is allowed for the proportionate part of the monthly charge in multiples of one day for each twenty-four hours or major fraction thereof of interruption for the portion of the service affected by the interruption.

**Note 1:** Two or more interruptions of 30 minutes or more, during any period up to, but not including 3 hours, shall be considered as one interruption.

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**B7. DIGITAL NETWORK SERVICE****B7.2 Digital Data Service (DDS) (Cont'd)****B7.2.3 Rates and Charges****A. Service wholly within the same LATA.**

1. A Digital Local Channel is furnished between a Serving Wire Center and the customer's premises. The Digital Local Channel charges apply per local channel.

		<b>Month to Month</b>	<b>Nonrecurring Charge</b>		
			<b>First</b>	<b>Add'l</b>	<b>USOC</b>
(a)	2.4 Kbps	<i>\$73.10</i>	<b>\$340.00</b>	<b>\$105.00</b>	<b>1RSD2</b>
(b)	4.8 Kbps	<i>73.10</i>	<b>340.00</b>	<b>105.00</b>	<b>1RSD4</b>
(c)	9.6 Kbps	<i>73.10</i>	<b>340.00</b>	<b>105.00</b>	<b>1RSD9</b>
(d)	19.2 Kbps	<i>73.10</i>	<b>340.00</b>	<b>105.00</b>	<b>1RSD3</b>
(e)	56.0 Kbps	<i>99.70</i>	<b>340.00</b>	<b>105.00</b>	<b>1RSD5</b>
(f)	64.0 Kbps	<i>99.70</i>	<b>340.00</b>	<b>105.00</b>	<b>1RSD6</b>

2. A Node Channel Termination is required at the Company's Node Central Office. Node Channel Termination per local channel, each.

(a)	2.4 Kbps	<i>17.20</i>	<b>37.00</b>	<b>32.00</b>	<b>2UN24</b>
(b)	4.8 Kbps	<i>17.20</i>	<b>37.00</b>	<b>32.00</b>	<b>2UN48</b>
(c)	9.6 Kbps	<i>17.20</i>	<b>37.00</b>	<b>32.00</b>	<b>2UN96</b>
(d)	19.2 Kbps	<i>17.20</i>	<b>37.00</b>	<b>32.00</b>	<b>2UN19</b>
(e)	56.0 Kbps	<i>46.50</i>	<b>37.00</b>	<b>32.00</b>	<b>2UN56</b>
(f)	64.0 Kbps	<i>46.50</i>	<b>37.00</b>	<b>32.00</b>	<b>2UN64</b>

3. A Digital Interoffice Channel is furnished between a serving wire center and the Node Central Office or between Node Central Offices. Digital Interoffice mileage is portrayed in bands. The appropriate mileage band for calculating interoffice mileage rates is determined by the total length in miles of that interoffice channel. A flat rate and a rate per mile apply to each band for each Digital Interoffice Channel provided.1

**a. Interoffice Channel, each channel 0-8 miles****(1) Fixed rates applicable**

		<b>Month to Month</b>	<b>Nonrecurring</b>	<b>Charge USOC</b>
(a)	2.4,4.8, 9.6 and 19.2 Kbps	<i>\$22.00</i>	<b>\$93.00</b>	<b>3LBAA</b>
(b)	56.0 and 64.0 Kbps	<i>44.00</i>	<b>93.00</b>	<b>3LBAA</b>
(2)	Each mile or fraction thereof			
(a)	2.4,4.8, 9.6 and 19.2 Kbps	<i>2.25</i>	<b>-</b>	<b>3LBBA</b>
(b)	56.0 and 64.0 Kbps	<i>4.50</i>	<b>-</b>	<b>3LBBA</b>

**Note 1:** Refer to the National Exchange Carrier Association (NECA) Tariff F.C.C. No. 4 for mileage measurement methodology and wire center vertical (V) and Horizontal (H) coordinates.

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## B7. DIGITAL NETWORK SERVICE

### B7.2 Digital Data Service (DDS) (Cont'd)

#### B7.2.3 Rates and Charges (Cont'd)

##### A. Service wholly within the same LATA. (Cont'd)

##### 3. (Cont'd)<sup>1</sup>

	Month To Month	Nonrecurring Charge	USOC
b. Interoffice Channel, each 9-25 miles			
(1) Fixed rates applicable			
(a) 2.4,4.8, 9.6 and 19.2 Kbps	\$31.90	\$93.00	3LBCA
(b) 56.0 and 64.0 Kbps	44.00	93.00	3LBCA
(2) Each mile or fraction thereof			
(a) 2.4,4.8, 9.6 and 19.2 Kbps	3.10	-	3LBDA
(b) 56.0 and 64.0 Kbps	4.40	-	3LBDA
c. Interoffice Channel, each channel over 25 miles			
(1) Fixed rates applicable			
(a) 2.4,4.8, 9.6 and 19.2 Kbps	31.90	93.00	3LBEA
(b) 56.0 and 64.0 Kbps	63.80	93.00	3LBEA
(2) Each mile or fraction thereof			
(a) 2.4,4.8, 9.6 and 19.2 Kbps	2.90	-	3LBFA
(b) 56.0 and 64.0 Kbps	6.00	-	3LBFA

##### B. Service Options

1. Multipoint Service, per local or interoffice channel bridged <sup>2,3</sup>			
(a) 2.4,4.8, 9.6 or 19.2 Kbps	33.00	28.00	6BN
(b) 56.0 Kbps	33.00	28.00	6BN
2. Secondary Channel Capabilities, per local channel			
(a) Each <sup>2,3,4</sup>	19.80	225.00	SFS
3. Data Over Voice Channel, per local channel <sup>2,5,6</sup>			
(a) 9.6 Kbps	33.00	555.00	DDVJE
4. Speed Change Charge, per local channel			

	Nonrecurring Charge		USOC
	First	Additional	SCH
(a) Each <sup>7</sup>	\$188.50	\$68.50	

**Note 1:** Refer to the National Exchange Carrier Association (NECA) Tariff F.C.C. No. 4 for mileage measurement methodology and wire center vertical (V) and Horizontal (H) coordinates.

**Note 2:** This option may not be available in all service locations.

**Note 3:** This option is not available with 64.0 Kbps.

**Note 4:** Nonrecurring charge is applicable only if Secondary Channel service is being added subsequent to the installation of basic service.

**Note 5:** This option may be used in lieu of 9.6 Kbps Digital Local Channel in B7.2.3.A. preceding. All other DDS service rate elements apply as appropriate.

**Note 6:** Secondary Channel Capability cannot be provided when this option is used.

**Note 7:** Speed Change Charge is applicable where circuit out of service time during speed change activity is acceptable to customer.

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## B7. DIGITAL NETWORK SERVICE

### B7.2 Digital Data Service (DDS) (Cont'd)

#### B7.2.4 Types of Rates and Charges

A. The two types of rates and charges are monthly rates and nonrecurring charges and are described as follows:

1. Monthly Rates

Monthly rates are recurring charges that apply each month or fraction thereof that a service is provided. For billing purposes, each month is considered to have 30 days.

2. Nonrecurring Charges

Nonrecurring Charges are one-time charges that apply for a specific work activity. The three types of nonrecurring charges that apply are installation of service, installation of features and functions and service rearrangements.

a. Installation of Service

Nonrecurring charges apply for each service terminated at the customer's premises. For the installation of local channels when more than one of the same type of service, between the same locations, for the same customer is ordered and installed at the same time, one at each location is billed at the First Service Installed rate and the others are billed at the Additional Service Installed rate.

The nonrecurring charges for the Installation of Services are set forth in B7.2.3.A. preceding.

b. Nonrecurring charges apply for the installation of features and functions available with the various services. For some features and functions there is a lower charge if installed coincident with the service and a higher charge if installed subsequent to the service. Nonrecurring charges for Optional Features and Functions are set forth in B7.2.3.B. preceding.

c. Service Rearrangements

(1) Service rearrangements are changes to existing (installed) services which do not result in either a change in the minimum period requirements or a change in the physical location of the point of termination at a customer premises. Changes which result in the establishment of new minimum period obligations are treated as disconnects and starts. Changes in the physical location of the point of termination are treated as moves and are described and charged for as set forth in B7.2.5.

The charge to the customer for the service rearrangement is dependent on whether the change is administrative only in nature or involves actual physical change to the service.

Administrative changes will be made without charge(s) to the customer. Such changes require the continued provision and billing of the Private Line Service to the same entity (i.e., customer remains responsible for all outstanding indebtedness for the service). Administrative changes are as follows:

- Change of customer name (i.e., the customer of record does not change but rather the customer of record changes name),
- Change of customer or customer's premises address when the change of address is not a result of a physical relocation of equipment.
- Change in billing data (name, address or contact name or telephone number).

(2) All other service rearrangements will be charged for as follows:

- If the change involves the addition of other customer designated premises to an existing multipoint service, the nonrecurring charge for the local channel rate element will apply. The charges will apply only for the location(s) that is being added.
- If the change involves the addition of an optional feature or function which has a separate nonrecurring charge, that nonrecurring charge will apply.
- The appropriate nonrecurring charge for customer requested changes of data transmission rate for an existing DDS service circuit shall be the Speed Change Charge provided in B7.2.3.B.4. This charge shall apply per local channel on each circuit where the speed is requested to be changed. The existing circuits will experience out of service time when the speed change work is conducted.
- For all other changes, including a change of the customer of record involving no physical changes to the service provided or the addition of optional features without separate nonrecurring charges, a charge equal to a local channel rate element nonrecurring charge will apply. Only one such charge will apply per service order, per change.

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## **B7. DIGITAL NETWORK SERVICE**

### **B7.2 Digital Data Service (DDS) (Cont'd)**

#### **B7.2.5 Moves**

- A.** A move involves a change in the physical location of one of the following:
  - 1. The point of interface at the customer premises.
  - 2. The customer's premises.
- B.** The charges for the move are dependent on whether the move is to a new location within the same building or to a different building.
  - 1. **Moves Within the Same Building**

When the move is to a new location within the same building, the charge for the move will be an amount equal to one-half the nonrecurring (i.e., installation) charge for the affected service termination at the customer's premises. There will be no change in the minimum period requirements. If a move is made at the same time a service rearrangement is made, the total charge will never exceed a full nonrecurring charge for the basic service.
  - 2. **To a Different Building**

Moves to a different building, other than addressed in 3. following, will be treated as a discontinuance and start of service and all associated nonrecurring charges will apply. New minimum period requirements will be established at the new location. The customer will also remain responsible for satisfying all outstanding minimum period charges for the discontinued service.
  - 3. **Moves of Service(s) under CSPP**

Customer requests for moves of service, other than inside moves, will be subject to the conditions stated in B2.4.9.A.11. preceding.

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## **B7. DIGITAL NETWORK SERVICE**

### **B7.3 DS1 Channel Service**

#### **B7.3.1 General**

- A. DS1 channel service is an intraLATA digital service which provides channelization capability for the customer in the Company's central office. DS1 channel service is provided in packages based on multiple voice grade channel equivalents (DS0) where 24 voice grade channels are equal to a DS1. This service provides local channels and/or interoffice channels for network exchange access, Foreign Exchange Service, Centrex Type Services main station lines, off-premises stations, tie lines, WATS lines, analog data channels, Broadband Exchange lines, and digital data services (at 2.4 Kbps, 4.8 Kbps, 9.6 Kbps, 19.2 Kbps, 56 Kbps, 64 Kbps and 1.544 Mbps data rates).
- B. Channelization is provided by D type channel banks which are offered in various basic system capacities and feature activation types. Individual channel services are made available by selecting the specific feature activation equipment desired in a basic system. The customer may channelize all or part of a DS1 channel service package to activate voice and data facilities for interconnection with the exchange network, voice grade and data facilities for private line channels, as well as other DS1 channel services. The customer may also choose not to channelize all or part of a DS1 channel service package allowing direct connection to other DS1 services as provided in this Tariff or the General Subscriber Service Tariff.
- C. This service is available within a LATA where appropriate digital facilities are available as determined by the Company. Service inquiries will be necessary to determine availability. Special Construction charges for DS1 service will apply as specified in B7.1 preceding.
- D. Individual channels within a DS1 channel service package may be connected with service offered in other sections of this Tariff and General Subscriber Service Tariff as appropriate. The regulations, rates and charges in this Tariff are applicable for the DS1 channel service component of the customer's end-to-end service. Single channel service components (non-DS1 channel service links) are subject to the regulations, rates and charges in their respective tariff sections.
- E. The customer may activate any number or combination of channels within a DS1 channel service package within the limitations set forth in G. following. Channels may be activated coincident with initial service or at any time subsequent to basic system installation. Once activated, a channel is subject to a minimum service period in accordance with the contract terms. Features (channels) activated under month-to-month rates will have a minimum service period of one month.
- F. The total number of voice grade equivalent channels activated by the customer may not exceed the capacity of the basic system. Additionally, there are some necessary restrictions in total system capacities where certain types of channel services are channelized. For example, some channelizing equipment for DDS service and Select-A-Station Digital Service channels may require two voice grade equivalent channels per channel provided by the Company. This would reduce a system's stated capacity substantially. The Company will notify the customer when a system's capacity is affected.
- G. Central Office channelization generally provides analog to digital conversion to permit individual exchange services and private line channel services to be transported over digital high capacity facilities. In addition, this equipment permits connection to required testing facilities at designated hub or node locations for some digital offerings, such as DDS service. This channelization is also intended for use at Company locations where different high capacity digital network links terminate in the same central office and must be converted to individual analog or digital channels before individual service links can be cross-connected. System capacities below are provided in groups of 24 voice grade equivalent channels, and are subject to the limits as set forth in G. preceding.
- H. Channelization on a customer's premises is provided by the customer. Customer Premises channelization equipment, and any other associated network termination equipment, is available through various vendors, including Company, on a detariffed basis. Joint provisioning of channelized services introduces joint responsibilities between the customer and the Company.
  - 1. Responsibilities of the Company:
    - a. The Company will endeavor to activate its portion of joint service in a timely manner on the negotiated date to support installation requirements.
    - b. The Company will provide the customer with information regarding the type and the manufacturer of Central Office (C.O.) channelization equipment to be used in each application.
    - c. The Company will limit its selection of central office equipment to avoid operational and administrative difficulties associated with a multi-vendor central office environment.
    - d. The Company reserves the right to change its equipment vendors should equipment availability, price or technological advantages make such a change attractive or necessary.
    - e. The Company will notify the customer, generally a minimum of six months in advance, of any need to change its central office equipment to allow the customer sufficient time to respond, make any necessary changes, and schedule cooperative testing for cutover if required.
    - f. Digital synchronization timing for DS1 channel service will be provided by the Company.

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EFFECTIVE: October 8, 2010

## **B7. DIGITAL NETWORK SERVICE**

### **B7.3 DS1 Channel Service (Cont'd)**

#### **B7.3.1 General (Cont'd)**

##### **H. (Cont'd)**

##### **2. Responsibilities of the Customer:**

- a. The customer must be prepared to activate his portion of joint service in a timely manner on the negotiated date, providing testing equipment and personnel to support installation requirements, as may be necessary.
- b. The customer will be responsible for selecting his own equipment. Customer equipment must be compatible with the Company provided channelization at the central office.

##### **3. Trouble resolutions:**

The Company will assist the customer in resolving any installation or day to day channel service problems. However, the Company does not assume responsibility for the compatibility or suitability of the customer's equipment. Dispatches to customer premises caused by customer equipment troubles will result in Trouble Determination Charges to the customer.

##### **I. Channelized DS1 service is available only with D4 channel bank equipment or compatible, equivalent equipment.**

##### **J. Emerging technology, such as low bit rate voice multiplexing techniques, may permit additional quantities of individual channels to be channelized on a single DS1 signal. Equipment providing this capability does not generally assure compatibility between different manufacturers. Some equipment may not be suitable for data transmission or tandem network line application. Rates, charges, and availability of this equipment will be negotiated with the customer on an individual case basis.**

##### **K. When DS1 channel service is interrupted, due to causes other than customer action/negligence, or to the failure of facilities furnished by the customer, a credit allowance will be made as set forth following for the portion of service which is affected. For the purpose of determining the amount of allowance, every month is considered to have thirty days.**

Interruptions of thirty minutes or over are credited to the customer at the proportionate monthly rate in half-hour multiples for each half-hour, or portion thereof, of interruption.

No credit is allowed for interruptions to service of less than thirty minutes.

#### **B7.3.2 Application of Rates**

- A. Monthly rates as specified in B7.3.4 following apply for each DS1 channel service according to the system capacity of voice grade equivalent channels in each package. These rates apply regardless of the number of voice grade circuit equivalents within each package that are actually activated by the customer at a point in time. In addition, rates and charges for associated DS1 service in B7.1 of this Tariff are applicable.**
- B. Exchange Network Access is provided for channels within each DS1 channel service package at the rates and charges specified in B7.3.4 following and apply for each channel within a package that is activated for Exchange Network Access. In addition, all applicable regulations, rates, and charges specified in Section A3. of the General Subscriber Service Tariff will apply.**
- C. Rates and charges specified in other tariff sections for services such as Touch-Tone, Custom Calling Service, etc, are in addition to the monthly rate for DS1 channel services. Also, the rates and charges for other services that may be interconnected or extended beyond the basic DS1 channel service, such as Off-premises Stations, Tie Lines, Private Lines, etc., are in addition to the rates specified in this Tariff for those portions of channel services necessary to provide end-to-end service. Rates and charges for single DS1 service used to connect DS1 channel services when used as part of the same communications system, will be as specified in B7.1 preceding.**
- D. All usual and applicable Service Connection Charges and/or Nonrecurring Charges as specified in other tariffs apply to the activation, move or change of channel equivalents within DS1 channel service packages as well as for installation of the basic system. Suspension of service is not permitted with DS1 channel service.**
- E. Transfer of service responsibility between customers is permitted subject to payment of a Transfer Charge as specified in B7.3.4.C.**



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EFFECTIVE: October 8, 2010

**B7. DIGITAL NETWORK SERVICE****B7.3 DS1 Channel Service (Cont'd)****B7.3.3 Digital Architecture and Definitions****A. Digital Architecture**

DS1 channel services differ in provisioning method and numbering format from single channel services. These services will be available from the Company on a link (partial channel) basis rather than as an end-to-end service. This architecture is intended to promote more efficient connectivity of analog and digital networks in the future.

Both analog and digital channels are offered by the Company. Where traditional analog voice grade signals are provided to a customer at his premises, then comparable performance specifications to the Series 2100 (or 2000) Channel Services will be provided, as contained in the Private Line or General Customer Services Tariffs.

Many DS1 service channels will be available on a digital basis at the network interface on a customer's premises. Traditional analog services, like tie lines, off-premises stations, and PBX trunks can be provided on a digital basis to a customer's premises by the Company when a customer desires them encoded in a DS1 bit stream. Under those conditions, they will be provided as DS0 channels by the Company. Both the Company and the customer have joint responsibilities to ensure the proper transmission of the provided services. Normal analog channel network interface specifications will be superseded by the electrical specifications of DS1 service channel which is actually terminated. Each DS0 channel provided will have identity only as a "time slot" within a DS1 channel. Compatible Digital to analog conversion equipment must be provided by the customer to derive the desired analog services. Any Channel Service Units (CSUs) necessary for digital services are the responsibility of the customer.

**B. Definitions****CHANNEL SERVICE UNIT (CSU)**

The term CSU denotes network channel terminating equipment provided by the customer to terminate digital channel facilities on a customer's or user's premises.

**DSO**

The term DSO denotes a channel service expressed in terms of its digitally encoded data bit rate in accordance with the North American hierarchy of digital signal levels. It is generally referred to as having a 64 Kbps transmission bit rate signal.

**DS1**

The term DS1 denotes a channel service expressed in terms of its digitally encoded bit rate in accordance with the North American hierarchy of digital signal levels. It has a 1.544 Mbps transmission data rate, and provides for the two-way simultaneous transmission of isochronous timed, Bipolar Return-to-Zero (BPRZ) bit stream format, except where intentional bipolar violations are introduced by Bipolar with 8 Zero Substitution (B8ZS) format. Unframed signal formats are not permitted or compatible with Company equipment.

**B7.3.4 Rates and Charges****A. Basic System Capacity**

The rates for a basic system without activated features for voice or data grade service are as follows:

**1. Central Office**

	<b>Nonrecurring Charge</b>	<b>Month To Month</b>	<b>USOC</b>
(a) 24 Voice Equivalent Channels	<b>\$230.00</b>	<b>\$230.00</b>	<b>VUM24</b>
(b) 48 Voice Equivalent Channels	<b>275.00</b>	<b>450.00</b>	<b>VUM48</b>
(c) 96 Voice Equivalent Channels	<b>360.00</b>	<b>880.00</b>	<b>VUM96</b>
(d) 144 Voice Equivalent Channels	<b>450.00</b>	<b>1,140.00</b>	<b>VUM14</b>
(e) 192 Voice Equivalent Channels	<b>535.00</b>	<b>1,390.00</b>	<b>VUM19</b>
(f) 240 Voice Equivalent Channels	<b>625.00</b>	<b>1,630.00</b>	<b>VUM20</b>
(g) 288 Voice Equivalent Channels	<b>710.00</b>	<b>1,860.00</b>	<b>VUM28</b>
(h) 384 Voice Equivalent Channels	<b>885.00</b>	<b>2,265.00</b>	<b>VUM38</b>
(i) 480 Voice Equivalent Channels	<b>1,060.00</b>	<b>2,650.00</b>	<b>VUM40</b>
(j) 576 Voice Equivalent Channels	<b>1,230.00</b>	<b>3,025.00</b>	<b>VUM57</b>
(k) 672 Voice Equivalent Channels	<b>1,410.00</b>	<b>3,365.00</b>	<b>VUM67</b>

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## B7. DIGITAL NETWORK SERVICE

### B7.3 DS1 Channel Service (Cont'd)

#### B7.3.4 Rates and Charges (Cont'd)

##### B. Feature Activation

##### 1. Central Office

##### a. Analog Voice Service

- (1) For Exchange Line, Foreign Exchange, OPS, Trunk, Centrex Type Services station line, WATS Line, or Voice PL use

	Nonrecurring Charge		Month to Month	USOC
	First	Each Additional		
(a) Per feature activated <sup>1,2,3</sup>	<b>\$7.00</b>	<b>\$6.00</b>	<b>\$9.00</b>	<b>1PQW+</b>
(2) For Tie Line use				
(a) Per feature activated <sup>1,2,3</sup>	<b>7.00</b>	<b>6.00</b>	<b>13.00</b>	<b>1PQW+</b>
b. Analog Data Service				
(1) For data transmission use				
(a) Per feature activated <sup>1,2,3</sup>	<b>7.00</b>	<b>6.00</b>	<b>13.00</b>	<b>1PQW+</b>
c. Digital Data Service				
(1) For 2.4 Kbps, 4.8 Kbps, 9.6 Kbps, 19.2 Kbps, 56 Kbps and 64 Kbps data rates				
(a) Per feature activated <sup>1,2,3</sup>	<b>7.00</b>	<b>6.00</b>	<b>13.00</b>	<b>1PQW+</b>
d. Broadband Exchange Line Service				
(1) For 56 Kbps and 64 Kbps data rates				
(a) Per feature activated <sup>1,2,3</sup>	<b>10.00</b>	<b>7.50</b>	<b>10.00</b>	<b>1PQW+</b>

**Note 1:** The first nonrecurring charge is applicable to the first channel activated of a particular type. It is also applicable to a first channel of that type which is installed at a later time.

**Note 2:** Each additional nonrecurring charge is applicable to each additional channel activated of the same type and at the same time.

**Note 3:** Represents 1 (one) voice equivalent channel per feature activated.

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**B7. DIGITAL NETWORK SERVICE****B7.3 DS1 Channel Service (Cont'd)****B7.3.4 Rates and Charges (Cont'd)****C. Transfer Charges****1. Transfer Between Customers****Nonrecurring  
Charge****USOC**

\$50.00

NA

(a) Per transfer

**D. Mileage Charges**

Rates and charges for DS1 service and DS1 Plus service as contained in B7.1 and B7.9 are applicable. Generally, one 1.544 Mbps channel is required for each group of 24 voice equivalent channels provided.

**E. Automatic Protection Switching (APS)**

APS for a DS1 service interface provides automatic DS1 channel switching to a backup DS1 channel upon primary facility failure. When provided via DS1 service, this feature requires purchase of an additional DS1 service channel from B7.1 of this Tariff for each backup channel required. Rates, charges and availability of this equipment will be negotiated with the customer on an individual case basis. This feature may not be available with lines utilizing the Clear Channel Capability line code (B8ZS).

**F. Switching Arrangements, multipoint/multistation Bridging and Data Conditioning rates**

Rates and charges are those that would be applicable to single channel services.

**G. Signaling Arrangements**

Rates and charges for single channels, as contained in Section B3. of this Tariff, are not applicable to local channel and interoffice link segments that are channelized under the DS1 channel services offering. However, rates and charges for automatic ringdown (20 Hz.) signalling, as contained in Section B3. of this Tariff, are applicable when this is desired by the customer.

**H. Network Access Service**

Rates and charges for Network Access lines are applicable as contained in Section A3. of the General Subscriber Service Tariff in addition to Feature Activation and other DS1 channel service rates and charges contained in this section.

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## B7. DIGITAL NETWORK SERVICE

### B7.4 Fiber Service

#### B7.4.1 General

- A. Fiber service is an intraLATA fiber optic based, digital service which provides channelization capability for the customer in packages based on systems consisting of DS3, DS1, STS-1, OC-3, OC-12, OC-48 and OC-192 channels. It will provide local channels and/or interoffice channels in the following system sizes:

- Asynchronous - Fiber 1
- Synchronous - STS-1, OC-3, OC-12, OC-48 and OC-192 Fiber service

Asynchronous systems are capable of transporting DS1 and DS3 channels. Synchronous systems are capable of transporting all channels. The capacity of each Fiber service System is shown in the following table:

<u>Fiber System</u>	<u>DS1</u>	<u>DS3</u>	<u>STS-1</u>	<u>OC-3</u>	<u>OC-12</u>	<u>OC-48</u>
Fiber 1	28	1				
Fiber STS-1	28		1			
Fiber OC-3	84	3	3	1		
Fiber OC-12	336	12	12	4	1	
Fiber OC-48	1344	48	48	16	4	1
Fiber OC-192	5376	192	192	64	16	4

- B. Channelization is provided by Fiber service Systems which furnish fiber optic transport from the central office to a customer's premises. Channel interfaces are offered to provide individual DS1, Flex DS1, DS3, DS3 (Asymmetrical with DS1/Flex DS1), STS-1, OC-3, OC-12, OC-48, 10 Mbps, 100 Mbps, Fractional 1000 Mbps and 1000 Mbps channels. The customer may channelize all or part of a Fiber service package to activate data facilities for interconnection with the exchange network, voice grade and data facilities for private line channels, as well as other Fiber services. The customer may also choose not to channelize all or part of a Fiber service package allowing direct connection to other Fiber services DS3 or DS1 services as provided in the Private Line Service Tariff or the General Subscriber Service Tariff. (OC-12, OC-48 and OC-192 Fiber service local channel systems and OC-192 interoffice channel systems are only available as channelized.)

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## B7. DIGITAL NETWORK SERVICE

### B7.4 Fiber Service (Cont'd)

#### B7.4.1 General (Cont'd)

- C. Channel interfaces are offered to provide individual DS1, Flex DS1, DS3, DS3 (Asymmetrical with DS1/Flex DS1), STS-1, OC-3, OC12, OC-48, 10 Mbps, 100 Mbps, Fractional 1000 Mbps and 1000 Mbps channels. Channel interface availability varies with system size and transport architecture (asynchronous vs. synchronous). The following table lists the channel interfaces available with each Fiber service System.

Local Channel Systems:

	Asynchronous	Synchronous				
	LG1	STS-1	OC-3	OC-12	OC-48	OC-192
Customer Channel Interfaces						
DS1	Yes	Yes	Yes	No	Yes <sup>1</sup>	Yes <sup>1</sup>
Flex DS1	No	No	No	Yes <sup>2</sup>	Yes <sup>2</sup>	Yes <sup>2</sup>
DS3	Yes	No	Yes	Yes	Yes	Yes <sup>1</sup>
DS3 Asymmetrical with DS1	No	No	Yes	No	No	No
DS3 Asymmetrical with Flex DS1	No	No	No	Yes <sup>2</sup>	Yes <sup>2</sup>	Yes <sup>2</sup>
STS-1	No	Yes	Yes	Yes	Yes	Yes <sup>1</sup>
OC-3	No	No	Yes	Yes	Yes	Yes
OC-12	No	No	No	No	Yes	Yes
OC-48	No	No	No	No	No	Yes
10 Mbps	No	No	Yes <sup>3</sup>	Yes <sup>3</sup>	Yes <sup>3</sup>	Yes <sup>3</sup>
100 Mbps	No	No	No	Yes <sup>3</sup>	Yes <sup>3</sup>	Yes <sup>3</sup>
1000 Mbps	No	No	No	No	Yes <sup>4</sup>	Yes <sup>4</sup>
Fractional 1000 Mbps at 50 Mbps, 150 Mbps, 300 Mbps or 450 Mbps	No	No	Yes <sup>3</sup>	Yes <sup>3</sup>	Yes <sup>3</sup>	Yes <sup>3</sup>
Fractional 1000 Mbps at 600 Mbps	No	No	No	No	Yes <sup>3</sup>	Yes <sup>3</sup>
100 Mbps Metro Ethernet Backbone	No	No	Yes <sup>5</sup>	Yes <sup>5</sup>	Yes <sup>5</sup>	Yes <sup>5</sup>
1000 Mbps Metro Ethernet Backbone	No	No	No	No	Yes <sup>5</sup>	Yes <sup>5</sup>

**Note 1:** Available only for systems installed on or after November 12, 2003. The maximum number of DS1 circuits available in a system is 108.

**Note 2:** Available only for systems installed on or after April 13, 2005. The maximum number of Flex DS1 circuits available in a system is 108.

**Note 3:** Available only for OC-12, OC-48 or OC-192 systems installed on or after December 2, 2004, that do not contain a Optical Customer Termination or a Optical Serving Wire Center Termination. 10 Mbps, 100 Mbps and Fractional 1000 Mbps transport channel interfaces do not contain any monitoring capability above the physical layer. 10 Mbps, 100 Mbps and Fractional 1000 Mbps at 50 Mbps interfaces are available for OC-3 systems only that were installed on or after May 11, 2006. 100 Mbps interface service components are further defined regarding the number of STS-1s used to provision the interface.

**Note 4:** Available only for systems installed on or after November 12, 2003 that do not contain a Optical Customer Termination or a Optical Serving Wire Center Termination. 1000 Mbps transport channel interfaces do not contain any monitoring capability above the physical layer.

**Note 5:** 100 Mbps and 1000 Mbps Metro Ethernet Backbone interfaces are for use when Fiber service is utilized for transport of a customer's Metro Ethernet service. 100 Mbps are further defined regarding the number of STS-1, utilized in conjunction with the interface. The 100 Mbps (3-STs-1) Metro Ethernet Backbone interface is not available for OC-3 nodes.

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## B7. DIGITAL NETWORK SERVICE

### B7.4 Fiber Service (Cont'd)

#### B7.4.1 General (Cont'd)

##### C. Local Channel Systems: (Cont'd)

	Asynchronous	Synchronous				
	LG1	STS-1	OC-3	OC-12	OC-48	OC-192
Central Office Channel Interfaces						
DS1	Yes	Yes	Yes	No	Yes <sup>1</sup>	Yes <sup>1</sup>
Flex DS1	No	No	No	Yes <sup>2</sup>	Yes <sup>2</sup>	Yes <sup>2</sup>
DS3	Yes	No	Yes	Yes	Yes	Yes <sup>1</sup>
DS3 Asymmetrical with DS1	No	No	Yes	No	No	No
DS3 Asymmetrical with Flex DS1	No	No	No	Yes <sup>2</sup>	Yes <sup>2</sup>	Yes <sup>2</sup>
STS-1	No	Yes	Yes	Yes	Yes	No
OC-3	No	No	Yes	Yes	Yes	Yes
OC-12	No	No	No	No	Yes	Yes
OC-48	No	No	No	No	No	Yes
28 DS1 Channel System	No	No	No	Yes	Yes	Yes <sup>1</sup>
STS-1 Channel System	No	No	No	Yes	Yes	Yes <sup>1</sup>
100 Mbps Metro Ethernet Backbone	No	No	Yes <sup>3</sup>	Yes <sup>3</sup>	Yes <sup>3</sup>	Yes <sup>3</sup>
1000 Mbps Metro Ethernet Backbone	No	No	No	No	Yes <sup>3</sup>	Yes <sup>3</sup>

**Note 1:** Available only for systems installed on or after November 12, 2003. The maximum number of DS1 circuits available in a system is 108.

**Note 2:** Available only for systems installed on or after April 13, 2005. The maximum number of Flex DS1 circuits available in a system is 108.

**Note 3:** 100 Mbps and 1000 Mbps Metro Ethernet Backbone interfaces are for use when Fiber service is utilized for transport of a customer's Metro Ethernet service. 100 Mbps Metro Ethernet Backbone interfaces are further defined regarding the number of STS-1, utilized in conjunction with the interface. The 100 Mbps (3-STs-1) Metro Ethernet Backbone interface is not available for OC-3 nodes.

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## B7. DIGITAL NETWORK SERVICE

### B7.4 Fiber Service (Cont'd)

#### B7.4.1 General (Cont'd)

##### C. (Cont'd)

##### Local Channel Systems: (Cont'd)

##### Central Office Channel Interfaces (Cont'd)

	Asynchronous	Synchronous				
	LG1	STS-1	OC-3	OC-12	OC-48	OC-192
OC-3 Channel System	No	No	No	Yes	Yes	Yes
OC-12 Channel System	No	No	No	No	No	Yes
OC-48 Channel System	No	No	No	No	No	Yes
10 Mbps	No	No	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>
100 Mbps	No	No	No	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>
1000 Mbps	No	No	No	No	Yes <sup>2</sup>	Yes <sup>2</sup>
Fractional 1000 Mbps at 50 Mbps, 150 Mbps, 300 Mbps or 450 Mbps	No	No	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>
Fractional 1000 Mbps at 600 Mbps	No	No	No	No	Yes <sup>1</sup>	Yes <sup>1</sup>

##### Interoffice Channel Systems:

##### Central Office Channel Interfaces

DS1	No	No	No	No	No	No
DS3	Yes	No	Yes	Yes	Yes	Yes <sup>3</sup>
STS-1	No	Yes	Yes	Yes	Yes	Yes <sup>3</sup>
OC-3	No	No	Yes	Yes	Yes	Yes
OC-12	No	No	No	Yes	Yes	Yes
OC-48	No	No	No	No	Yes	Yes
28 DS1 Channel System	Yes	No	Yes	Yes	Yes	Yes <sup>3</sup>
STS-1 Channel System	No	Yes	Yes	Yes	Yes	Yes <sup>3</sup>
OC-3 Channel System	No	No	Yes	Yes	Yes	Yes
OC-12 Channel System	No	No	No	No	No	Yes
OC-48 Channel System	No	No	No	No	No	Yes
10 Mbps	No	No	No	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>
100 Mbps	No	No	No	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>
1000 Mbps	No	No	No	No	Yes <sup>2</sup>	Yes <sup>2</sup>
Fractional 1000 Mbps at 50 Mbps, 150 Mbps, 300 Mbps or 450 Mbps	No	No	No	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>
Fractional 1000 Mbps at 600 Mbps	No	No	No	No	Yes <sup>1</sup>	Yes <sup>1</sup>

**Note 1:** Available only for OC-12, OC-48 or OC-192 systems installed on or December 2, 2004, that do not contain a Optical Customer Termination or a Optical Serving Wire Center Termination. 10 Mbps, 100 Mbps and Fractional 1000 Mbps transport channel interfaces do not contain any monitoring capability above the physical layer. 10 Mbps, 100 Mbps and Fractional 1000 Mbps at 50 Mbps interfaces are available for OC-3 systems only that were installed on or after May 11, 2006. 100 Mbps interface service components are further defined regarding the number of STS-1s used to provision the interface.

**Note 2:** Available only for systems installed on or after November 12, 2003 that do not contain a Optical Customer Termination or a Optical Serving Wire Center Termination. 1000 Mbps transport channel interfaces do not contain any monitoring capability above the physical layer.

**Note 3:** Available only for systems installed on or after November 12, 2003. The maximum number of DS1 circuits available in a system is 96.

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## B7. DIGITAL NETWORK SERVICE

### B7.4 Fiber Service (Cont'd)

#### B7.4.1 General (Cont'd)

- D. OC-3, OC-12 and OC-48 Fiber service local channel systems may have an optical physical interface at either the serving wire center or the customer termination location. Where a customer elects to order a Fiber service local channel system with optical termination at the customer's location. The customer's termination equipment must be compatible with Company equipment in the serving wire center. Customers are also required to utilize compatible channel interface combinations to function with Company provided central office channel interfaces. The Company reserves the right to determine the equipment it employs for service.
- E. This service is available within a LATA where appropriate digital facilities can be made available as determined by the Company. Service inquiries will be necessary to determine availability interval.
- F. All Fiber services in a customer's package must be channelized in a single equipment location on a customer's premises, i.e., a package cannot be split between premises, or multiple locations within a premises. Standard network interfaces will be provided by the Company for digital services consistent with existing practices for single channel services.
- G. Individual channels within a Fiber service package may be connected with service offered in other sections of this Tariff and the General Subscriber Service Tariff as appropriate. The regulations, rates and charges in this Tariff are applicable for the Fiber service component of the customer's end-to-end service. Single channel service components (non-Fiber service links) are subject to the regulations, rates and charges in their respective tariff sections.
- H. The customer may activate any number or combination of channels within a Fiber service package within the capacity limits of the Basic System. Channels may be activated coincident with installation or at any time subsequent to basic system installation. Once activated, a channel is subject to a minimum service period in accordance with the contract period. Features (channels) activated under month-to-month rates will have a minimum service period of one month.
- I. When the Company provides customer premises Fiber service channelization down to a DS1 data rate level, any Channel Service Units (CSU) for associated 1.544 Mbps channels are the responsibility of the customer.
- J. DS1 channels have the capacity to provide 24 voice grade equivalent channels. Each DS3 channel has the capacity to provide 28 DS1 channels.
- K. The termination of channelization equipment will be in a single equipment location on a customer's premises. The customer must provide suitable floor space, controlled environment, and a source of non-switched 120 volt, 60 Hz AC power to support this service.
- L. Two additional levels of reliability are offered as options of basic Fiber service. These service levels provide guaranteed Separate Alternate Facilities Transport (SAFT Levels I & II) for improved protection of local channel systems extended from the first outside plant service access point outside the Company's serving wire center to the last outside plant service access point prior to entering a customer's premises.  
SAFT Level I - Service protection facilities will be guaranteed to be provided in a separate sheath, i.e., cable, from the primary facilities.  
SAFT Level II - Service protection facilities will be guaranteed to be provided in a separate sheath, i.e., cable, separate supporting structure and route from the primary facilities. Intermediate equipment, if required, will be configured to prevent a single service interruption point. If existing facilities are not available, special construction charges may apply.
- M. Fiber service interoffice channel systems are intended to extend Fiber service local channels to other central offices. In addition these channels, may be provided on a stand-alone basis when used in a "link" arrangement with other services in this Tariff and the General Subscriber Service Tariff.
- N. The level of automatic protection switching capability varies for Fiber service asynchronous and synchronous channels. For asynchronous channels, automatic protection switching capability is a standard service feature that automatically switches customer service to protection facilities upon primary facility failure. Card protection (1+n) is provided for DS1, DS3 and STS-1 channel interfaces as a standard feature. For synchronous channels, automatic protection switching capability is provided via the synchronous customer or central office channel 4-fiber interfaces. These 4-fiber interfaces provide 1+1 optical card protection of the interface.



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## B7. DIGITAL NETWORK SERVICE

### B7.4 Fiber Service (Cont'd)

#### B7.4.1 General (Cont'd)

##### O. Credit Allowance

When Fiber service is interrupted due to causes other than negligence of the customer, or to the failure of facilities or equipment furnished by the customer, a credit allowance will be made upon request for the portion of service affected. Where service interruptions of one minute or more per occasion occur, the credit applied shall be at the rate of 1440/1440 of the monthly charges for the Fiber service. All credit allowances shall begin from the time of notice by the customer to the Company, and will end when the service is operative. A customer must report the outage in order to receive service outage credit. The total credit received in any month shall not exceed the monthly rate for the service. Outage credits for DS1 channel interfaces and subtending DS1 services are as set forth in the tariff sections governing those services.

- P. 100 Mbps and 1000 Mbps Metro Ethernet Backbone interfaces are for use when Fiber service is utilized for transport of a customer's Metro Ethernet service. 100 Mbps Metro Ethernet Backbone interfaces are further defined regarding the number of STS-1s, utilized in conjunction with the interface.

#### B7.4.2 Application of Rates

- A. Monthly rates and charges as specified in B7.4.5 following apply for each Fiber service. These rates apply regardless of the number of circuit equivalents within each package that are actually activated by the customer at a point in time.

1. Local channel systems furnished between a Serving Wire Center and the customer's premises are distance sensitive. Local channel systems include the transport common equipment, and first half air-mile of local channel facilities at rates specified in B7.4.5.A. following. Rates for additional lengths of local channel facilities are as specified in B7.4.5.B. following.
2. Separate Alternate Facility Transport (SAFT) options for Fiber service local channels are offered at the rates specified in B7.4.5.C. following. These rates are in addition to local channel system rates.
3. Interoffice channel system mileage rates and charges are as specified in B7.4.5.D. following.

- B. Suspension of service is not permitted with Fiber service.

- C. Channel interfaces are required for Fiber service based upon the following guidelines:

1. Channel interfaces are required at both the customer's location and the serving wire center for Fiber service local channel systems and at both termination points of a Fiber service interoffice channel, except as specified in 2. following.
2. A Fiber service central office channel interface is not required for a synchronous Fiber service local channel system with optical termination in the serving wire center. A Fiber service local channel system with optical termination in the serving wire center may connect in one of the following ways:
  - to another Fiber service local channel or interoffice channel at the compatible optical level,
  - to a FiberRing service channel interface (CI) at the compatible optical level, or
  - to a compatible optical level channel interface from a higher level Fiber service local channel or interoffice channel.
3. Fiber service channel interfaces are only offered in conjunction with a Fiber service System.
4. Company provided DS1 customer channel interfaces are offered only with Fiber 1, Fiber STS-1 and Fiber OC-3 Basic Systems. Also, a maximum of 96 DS1 customer channel interfaces are available on Fiber OC-48 and Fiber OC-192 Basic Systems installed on or after November 12, 2003.
5. OC-12 and OC-48 Fiber service local channel systems require a 28 DS1, STS-1, or OC-3 channel system in addition to DS1 channel interfaces in the central office to derive DS1 channels in the serving wire center. OC-192 Fiber service local channel systems require an OC-3 channel system in addition to DS1 channel interfaces to terminate DS1 channels in the serving wire center.
6. OC-192 Fiber service local channel systems, installed prior to November 12, 2003, require an OC-3, OC-12 or OC-48 channel system in addition to DS3 or STS-1 channel interfaces to terminate DS3 or STS-1 channels in the serving wire center.
7. OC-3 Fiber service local channel systems which require a DS3 termination at one location and DS1 terminations at the other, have two options available:
  - A DS3 channel interface at the customer location and a 28 DS1 channel system in addition to DS1 channel interfaces at the serving wire center, or
  - A DS3 (asymmetrical with DS1) interface at one termination point and DS1 channel interfaces at the other termination point.

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## B7. DIGITAL NETWORK SERVICE

### B7.4 Fiber Service (Cont'd)

#### B7.4.2 Application of Rates (Cont'd)

##### C. (Cont'd)

8. For Fiber service Interoffice Channel Systems the following is applicable:
  - A 28 DS1 channel system in addition to DS1 channel interfaces provide DS1 channel termination capability with Fiber 1 service.
  - An STS-1 channel system in addition to DS1 channel interfaces provide DS1 channel termination capability with STS-1 Fiber service.
  - An OC-3 channel system in addition to DS1 channel interfaces provide DS1 channel termination capability with OC-3, OC-12, OC-48 and OC-192 Fiber service. OC-3, OC-12 or OC-48 channel systems in addition to DS3 or STS-1 channel interfaces provide DS3 or STS-1 channel termination capability with Fiber OC-192 Interoffice Channel Systems.
9. A channel system in addition to the lower level interfaces replaces the requirement for the higher level interface. For example, an OC-3 central office interface would be replaced with an OC-3 channel system and DS1 central office interfaces.

- D. Fiber service local channel mileage and Separate Alternate Facilities Transport mileage rates are distance sensitive. They are measured per half airline mile or fraction thereof from the customer's designated premises to the Serving Wire Center. Mileage is computed by using methodology and Vertical (V) and Horizontal (H) coordinates contained in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. No. 4. Fractional mileage shall be rounded up to the next half mile.
- E. Interoffice Channels furnished between Central Offices will be charged at rates based on airline distance between the Central Offices. Mileage is shown in B7.4.5.D following in terms of mileage bands. To determine the rate to be billed, first compute the mileage using methodology and Vertical (V) and Horizontal (H) coordinates contained in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. No. 4. Next find the band into which the computed mileage falls and apply the rates shown for that band. Fractional mileage shall be rounded up to the next full mile.
- F. Fiber service OC-3, OC-12 or OC-48 channel interfaces are associated with optical circuits within a Fiber service system. These optical circuits may be provisioned as concatenated. When an optical circuit is provisioned as concatenated, the multiple STS-1s within the optical circuit are provided as a single entity with a single overhead channel. When an optical circuit is provisioned as concatenated at the time the circuit is installed, there is no additional charge for provisioning it as concatenated. When an existing non-concatenated optical circuit is requested to be reconfigured as concatenated, a concatenation rearrangement charge shall apply. This rearrangement charge shall also apply when a request is made to convert an existing concatenated circuit to non-concatenated. This rearrangement charge is specified in B7.4.5.E following and is applied on a per circuit basis.
- G. Customers may request a C-Bit Parity framing format for a DS3 level circuit. If the request is made at the time the circuit is installed, there is no additional charge. When a request for C-Bit Parity framing format is made for an existing circuit, a nonrecurring charge will be applicable for rearranging the framing format on the circuit. This charge will also be applicable if a customer requests that the C-Bit Parity framing format be removed from a circuit. This charge is specified in B7.4.5.F. following and is applied on a per circuit basis.
- H. Fiber service Systems are available under contract only for variable rate periods with rates based on commitments of 24 to 48 months, 49 to 72 months, or 73 to 96 months under conditions specified in B2.4 except as modified following. Contract rate increases are subject to the stipulations of I. following. All elements of a contract will expire at the same time (be coterminous).
  1. Fiber service Systems are available only under contract as specified preceding. Month-to-Month rates are available at the conclusion of the initial contract period. Central office and customer channel interfaces are available on a month to month basis or under contract.
  2. All rate elements associated with a Fiber service local channel or interoffice channel must be provided under the same payment plan, provided however, that channel interfaces may be activated on month-to-month rates or a shorter payment period if desired.
  3. Channelized DS1/1.544 Mbps channels and Sub-DS1 Feature Activations are available under terms contained in DS1 Channel Service.

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## B7. DIGITAL NETWORK SERVICE

### B7.4 Fiber Service (Cont'd)

#### B7.4.2 Application of Rates (Cont'd)

- I. Fiber service rates under contract will not be increased by Company initiative until the contract period expires. Those monthly rates for Fiber service in effect at the time the service is installed and/or as of the service order application date, will be applicable until the contract expires. At the expiration date of the customer's payment period option, the customer may select a new payment period option at current contract rates or revert to current rates on a month-to-month basis. If the customer does not select a new payment period or does not request discontinuance of service, service will be continued under the terms specified in B2.4 of this Tariff.
- J. A Termination Liability Charge is applicable at the date of termination. The applicable charge is dependent on the contract period subscribed to and will be equal to the number of months remaining in the contract times fifty percent (50%) of the monthly rates for the Fiber service rates which are provided under contract, and are subject to the exemptions of 1. following.
  - 1. No Termination Liability Charge will be applicable for the Fiber service System when the customer renegotiates a new contract for the same system at the same location(s) for a period of time greater than the time remaining on the existing contract.
- K. Transfer of service responsibility between customers is permitted subject to payment of a Transfer Charge as determined on an individual case basis.

#### B7.4.3 Digital Architecture and Definitions

##### A. Digital Architecture

- 1. Fiber services differ in provisioning method and numbering format from single channel services. These services will be available from the Company on a link (partial channel) basis rather than as an end-to-end service. This architecture is intended to promote more efficient connectivity of analog and digital networks in the future.  
Many Fiber service channels will be available on a digital basis at the network interface on a customer's premises. Traditional analog services, like tie lines, off-premises stations, and PBX trunks can be provided on a digital basis to a premises by the Company when a customer desires them encoded in a DS1 bit stream. Under those conditions, they will be provided as DS0 channels by the Company. Both the Company and the customer have joint responsibilities to ensure the proper transmission of the provided services. Normal analog channel network interface specifications will be superseded by the electrical specifications of the 1.544 Mbps (DS1) channel which is actually terminated. Each DS0 channel provided will have identity only as a "time slot" within a DS1 channel. Compatible digital to analog conversion equipment must be provided by the customer to derive the desired analog services. Any Channel Service Units (CSUs) necessary for digital services are the responsibility of the customer.

##### B. Definitions

###### CHANNEL SERVICE UNIT (CSU)

This denotes network channel terminating equipment provided by the customer to terminate digital channel facilities on a customer's or user's premises.

###### DS0

This denotes a channel service expressed in terms of its digitally encoded data bit rate in accordance with the North American hierarchy of digital signal levels. It is generally referred to as having a 64 kbps transmission data rate signal.

###### DS1

This denotes a channel service expressed in terms of its digitally encoded data bit rate in accordance with the North American hierarchy of digital signal levels. It has a 1.544 Mbps transmission data rate, and provides for the two-way simultaneous transmission of isochronous timed, Bipolar Return-to-Zero (BPRZ) bit stream format, except where intentional bipolar violations are introduced by Bipolar with 8 Zero Substitution (B8ZS) format. Unframed signal formats are not permitted or compatible with Company equipment.

###### DS3

This denotes a channel service expressed in terms of its digitally encoded data bit rate in accordance with the North American hierarchy of digital signal levels. It has a 44.736 Mbps transmission data rate, and provides for two-way simultaneous transmission of randomized Non-Return-to-Zero (NRZ) signals with a B3ZS format.

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## **B7. DIGITAL NETWORK SERVICE**

### **B7.4 Fiber Service (Cont'd)**

#### **B7.4.3 Digital Architecture and Definitions (Cont'd)**

##### **B. Definitions (Cont'd)**

###### **SYNCHRONOUS FIBER SERVICES**

Fiber service is available in the following synchronous systems: STS-1, OC-3, OC-12, OC-48 and OC-192. These offerings are intended to be a very flexible, link connectable transport service for the very large customer. They have the capability of connecting with individual exchange and private line services, DS1 channel service, FiberRing service and/or other Fiber services.

###### **SYNCHRONOUS OPTICAL NETWORK (SONET)**

SONET defines a progressive hierarchy of optical signal and line rates. The basic building block is the STS-1 (Synchronous Transport Signal at level 1), operating at 51.840 Mbps. All higher rate signals (STS-N) are multiples of the basic STS-1 signal rate. The optical counterpart of a STS-N is the OC-N, operating at the same rate as the corresponding STS-N.

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## B7. DIGITAL NETWORK SERVICE

### B7.4 Fiber Service (Cont'd)

#### B7.4.4 Rates and Charges

##### A. Fiber service Local Channel Systems

The Basic System includes photonic common equipment and first one-half air mile of local channel fiber optic facilities.

##### 1. Fiber 1 Basic System<sup>1</sup>

		<b>Nonrecurring Charge</b>	<b>Month to Month</b>	<b>24 to 48 Months</b>	<b>49 to 72 Months</b>	<b>73 to 96 Months</b>	<b>USOC</b>
2.	(a) Per System Fiber STS-1 Basic System <sup>1</sup>	\$300.00	\$2,070.00	\$1,590.00	\$1,440.00	\$1,290.00	HFSC7
3.	(a) Per System Fiber OC-3 Basic System <sup>1</sup>	700.00	2,070.00	1,590.00	1,440.00	1,290.00	HFST1
	(a) Per System	700.00	3,700.00	3,100.00	2,800.00	2,500.00	HFSO3
	(b) Per System with Optical Customer Termination	700.00	2,432.00	1,968.00	1,776.00	1,584.00	HFSOC
	(c) Per System with Optical Serving Wire Center Termination	700.00	2,432.00	1,968.00	1,776.00	1,584.00	HFSOW
4.	Fiber OC-12 Basic System <sup>1</sup>						
	(a) Per System	700.00	5,500.00	5,100.00	4,600.00	4,150.00	HFS12
	(b) Per System with Optical Customer Termination	700.00	3,840.00	3,504.00	3,200.00	2,880.00	HFS1C
	(c) Per System with Optical Serving Wire Center Termination	700.00	3,840.00	3,504.00	3,200.00	2,880.00	HFS1W
5.	Fiber OC-48 Basic System <sup>1</sup>						
	(a) Per System	700.00	13,000.00	11,000.00	10,000.00	9,000.00	HFS48
	(b) Per System with Optical Customer Termination	700.00	8,000.00	7,040.00	6,400.00	5,760.00	HFS4C
	(c) Per System with Optical Serving Wire Center Termination	700.00	8,000.00	7,040.00	6,400.00	5,760.00	HFS4W
6.	Fiber OC-192 Basic System <sup>1</sup>						
	(a) Per System	700.00	26,000.00	20,000.00	18,000.00	16,000.00	HFST2

**Note 1:** Month to month rates are only available at the end of a contract rate period.

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## B7. DIGITAL NETWORK SERVICE

### B7.4 Fiber Service (Cont'd)

#### B7.4.4 Rates and Charges (Cont'd)

##### A. Fiber service Local Channel Systems (Cont'd)

The Basic System includes photonic common equipment and first one-half air mile of local channel fiber optic facilities.

##### 7. Central Office Channel Interfaces

		Nonrecurring Charge	Month to Month	24 to 48 Months	49 to 72 Months	73 to 96 Months	USOC
(a)	Per DS1	\$125.00	\$24.00	\$20.00	\$17.00	\$16.00	1PQE8
(b)	Per DS3	125.00	115.00	95.00	90.00	85.00	1PQE3
(c)	Per DS3 (Asymmetrical with DS1/Flex DS1)	290.00	500.00	390.00	365.00	350.00	1PQEG
(d)	Per STS-1	125.00	175.00	140.00	130.00	120.00	1PQE4
(e)	Per OC-3 (2 Fiber)	200.00	240.00	190.00	175.00	160.00	1PQE5
(f)	Per OC-3 (4 Fiber)	200.00	425.00	330.00	300.00	270.00	1PQE6
(g)	Per OC-12 (2 Fiber)	360.00	640.00	495.00	450.00	405.00	1PQEE
(h)	Per OC-12 (4 Fiber)	400.00	1,280.00	990.00	900.00	810.00	1PQED
(i)	Per OC-48 (2 Fiber)	500.00	1,600.00	1,325.00	1,215.00	1,050.00	1PQEO
(j)	Per OC-48 (4 Fiber)	500.00	3,200.00	2,650.00	2,430.00	2,100.00	1PQEF
(k)	Per 28 DS1 Channel System	125.00	600.00	490.00	465.00	450.00	MQ3CO
(l)	Per DS1 on 28 DS1 Channel System	125.00	15.00	8.00	7.00	6.00	1PQEA
(m)	Per STS-1 Channel System	125.00	600.00	490.00	465.00	450.00	1PQE7
(n)	Per OC-3 Channel System	125.00	1,325.00	1,100.00	1,000.00	900.00	1PQE9
(o)	Per OC-12 Channel System	125.00	2,650.00	2,200.00	2,000.00	1,800.00	1PQ12
(p)	Per OC-48 Channel System	125.00	5,490.00	4,410.00	4,050.00	3,510.00	1PQ48
(q)	Per 1000 Mbps <sup>1</sup>	400.00	740.00	520.00	475.00	425.00	1PQEK
(r)	Per 10 Mbps <sup>2</sup>	450.00	500.00	175.00	155.00	140.00	1PQEH
(s)	Per 100 Mbps (3 STS-1) <sup>2</sup>	450.00	540.00	210.00	190.00	170.00	1PQ EJ
(t)	Per Fractional 1000 Mbps <sup>2</sup>						
	- 50 Mbps	450.00	520.00	190.00	170.00	150.00	1PQEM
	- 150 Mbps	450.00	560.00	230.00	210.00	190.00	1PQEN
	- 300 Mbps	450.00	600.00	300.00	280.00	260.00	1PQER
	- 450 Mbps	450.00	640.00	340.00	310.00	290.00	1PQES
	- 600 Mbps	450.00	700.00	380.00	340.00	320.00	1PQET
(u)	Per Flex DS1	130.00	24.00	20.00	17.00	16.00	1PQEQ
(v)	Per 100 Mbps (1 STS-1) Metro Ethernet Backbone	800.00	500.00	175.00	155.00	140.00	1PQEU
(w)	Per 100 Mbps (3 STS-1) Metro Ethernet Backbone	800.00	540.00	210.00	190.00	170.00	1PQEY
(x)	Per 1000 Mbps Metro Ethernet Backbone	850.00	740.00	520.00	475.00	425.00	1PQEZ

**Note 1:** Available only for systems installed on or after November 12, 2003 that do not contain a Optical Customer Termination or a Optical Serving Wire Center Termination. 1000 Mbps transport channel interfaces do not contain any monitoring capability above the physical layer.

**Note 2:** Available only for systems installed on or after December 2, 2004, that do not contain a Optical Customer Termination or a Optical Serving Wire Center Termination. 10 Mbps, 100 Mbps and Fractional 1000 Mbps transport channel interfaces do not contain any monitoring capability above the physical layer.

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## B7. DIGITAL NETWORK SERVICE

### B7.4 Fiber Service (Cont'd)

#### B7.4.4 Rates and Charges (Cont'd)

##### A. Fiber service Local Channel Systems (Cont'd)

The Basic System includes photonic common equipment and first one-half air mile of local channel fiber optic facilities.  
(Cont'd)

##### 8. Customer Channel Interfaces

	Nonrecurring Charge	Month to Month	24 to 48 Months	49 to 72 Months	73 to 96 Months	USOC
(a) Per DS1	\$170.00	\$24.00	\$20.00	\$17.00	\$16.00	1PQF1
(b) Per DS3	125.00	115.00	95.00	90.00	85.00	1PQF3
(c) Per DS3 (Asymmetrical with DS1/Flex DS1)	280.00	500.00	390.00	365.00	350.00	1PQFG
(d) Per STS-1	125.00	240.00	195.00	185.00	175.00	1PQF4
(e) Per OC-3 (2 Fiber)	125.00	240.00	190.00	175.00	160.00	1PQF5
(f) Per OC-3 (4 Fiber)	125.00	475.00	380.00	350.00	320.00	1PQF6
(g) Per OC-12 (2 Fiber)	275.00	715.00	570.00	525.00	480.00	1PQF8
(h) Per OC-12 (4 Fiber)	275.00	1,430.00	1,140.00	1,050.00	960.00	1PQF7
(i) Per OC-48 (2 Fiber)	300.00	1,600.00	1,325.00	1,215.00	1,050.00	1PQF2
(j) Per OC-48 (4 Fiber)	300.00	3,200.00	2,650.00	2,430.00	2,100.00	1PQFO
(k) Per 1000 Mbps <sup>1</sup> 850 nm Multi-mode <sup>1</sup>	400.00	740.00	520.00	475.00	425.00	1PQFK
(l) Per 1000 Mbps 1310 nm Single-mode <sup>1</sup>	400.00	740.00	520.00	475.00	425.00	1PQ3K
(m) Per 10 Mbps <sup>2</sup>	450.00	500.00	175.00	155.00	140.00	1PQFH
(n) Per 100 Mbps (3 STS-1) - Electrical <sup>2</sup>	450.00	540.00	210.00	190.00	170.00	1PQFJ
(o) Per 100 Mbps (3 STS-1) - 1310 nm Single-mode <sup>2</sup>	450.00	540.00	210.00	190.00	170.00	1PQ3J
(p) Per Fractional 1000 Mbps <sup>2</sup>						
- 50 Mbps 850 nm Multi-mode	450.00	520.00	190.00	170.00	150.00	1PQFM
- 50 Mbps 1310 nm Single-mode	450.00	520.00	190.00	170.00	150.00	1PQ3M
- 150 Mbps 850 nm Multi-mode	450.00	560.00	230.00	210.00	190.00	1PQFN
- 150 Mbps 1310 nm Single-mode	450.00	560.00	230.00	210.00	190.00	1PQ3N
- 300 Mbps 850 nm Multi-mode	450.00	600.00	300.00	280.00	260.00	1PQFR
- 300 Mbps 1310 nm Single-mode	450.00	600.00	300.00	280.00	260.00	1PQ3R
- 450 Mbps 850 nm Multi-mode	450.00	640.00	340.00	310.00	290.00	1PQFS
- 450 Mbps 1310 nm Single-mode	450.00	640.00	340.00	310.00	290.00	1PQ3S
- 600 Mbps 850 nm Multi-mode	450.00	700.00	380.00	340.00	320.00	1PQFT
- 600 Mbps 1310 nm Single-mode	450.00	700.00	380.00	340.00	320.00	1PQ3T
(q) Per Flex DS1	260.00	24.00	20.00	17.00	16.00	1PQFQ
(r) Per 100 Mbps (1 STS-1) Metro Ethernet Backbone	800.00	500.00	175.00	155.00	140.00	1PQFU
(s) Per 100 Mbps (3 STS-1) Metro Ethernet Backbone	800.00	540.00	210.00	190.00	170.00	1PQFY
(t) Per 1000 Mbps Metro Ethernet Backbone	400.00	740.00	520.00	475.00	425.00	1PQFZ

##### B. Fiber service Local Channel Mileage<sup>3</sup>

##### 1. Mileage for all Fiber service Local Channel Systems

(a) First one-half mile (included in system charge)	-	-	-	-	-	NA
(b) Each additional one-half mile	NA	225.00	190.00	170.00	150.00	1LPEA

**Note 1:** Available only for systems installed on or after November 12, 2003 that do not contain a Optical Customer Termination or a Optical Serving Wire Center Termination. 1000 Mbps transport channel interfaces do not contain any monitoring capability above the physical layer.

**Note 2:** Available only for systems installed on or after December 2, 2004, that do not contain a Optical Customer Termination or a Optical Serving Wire Center Termination. 10 Mbps, 100 Mbps and Fractional 1000 Mbps transport channel interfaces do not contain any monitoring capability above the physical layer.

**Note 3:** Month to month rates are only available at the end of a contract rate period.

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## B7. DIGITAL NETWORK SERVICE

### B7.4 Fiber Service (Cont'd)

#### B7.4.4 Rates and Charges (Cont'd)

##### C. Separate Alternate Facility Transport (SAFT) <sup>1</sup>

		Nonrecurring Charge	Month to Month	24 to 48 Months	49 to 72 Months	73 to 96 Months	USOC
1.	SAFT Level I						
	(a) Per System	\$770.00					1L8EA
	(b) Per one-half air mile		\$175.00	\$115.00	\$95.00	\$90.00	1L8SA
2.	SAFT Level II						
	(a) Per System	770.00					1L8EP
	(b) Per one-half air mile		2,000.00	800.00	640.00	520.00	1L8SP
D.	Interoffice Channels (These channels are furnished between central offices. distance between central offices.)			Rates are based upon airline			
1.	Fiber 1 service <sup>1</sup>						
	a. Per DS3						
	(1) 0-8 miles						
	(a) Fixed	190.00	1,430.00	975.00	775.00	625.00	1LPS8
	(b) Per Mile		130.00	70.00	60.00	50.00	1LPE8
	(2) 9-25 miles						
	(a) Fixed	190.00	1,600.00	1,125.00	925.00	775.00	1LPS9
	(b) Per Mile		130.00	70.00	60.00	50.00	1LPE9
	(3) Over 25 miles						
	(a) Fixed	190.00	1,870.00	1,325.00	1,125.00	925.00	1LPS6
	(b) Per Mile		130.00	70.00	60.00	50.00	1LPE6
2.	Fiber STS-1 service <sup>1</sup>						
	a. Per STS-1						
	(1) 0-8 miles						
	(a) Fixed	190.00	1,430.00	975.00	775.00	625.00	1LPS8
	(b) Per Mile		130.00	70.00	60.00	50.00	1LPE8
	(2) 9-25 miles						
	(a) Fixed	190.00	1,600.00	1,125.00	925.00	775.00	1LPS9
	(b) Per Mile		130.00	70.00	60.00	50.00	1LPE9
	(3) Over 25 miles						
	(a) Fixed	190.00	1,870.00	1,325.00	1,125.00	925.00	1LPS6
	(b) Per Mile		130.00	70.00	60.00	50.00	1LPE6

**Note 1:** Month to month rates are only available at the end of a contract rate period.



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## B7. DIGITAL NETWORK SERVICE

### B7.4 Fiber Service (Cont'd)

#### B7.4.4 Rates and Charges (Cont'd)

**D. Interoffice Channels (Cont'd)** (These channels are furnished between central offices. Rates are based upon airline distance between central offices.)

3. Fiber OC-3 service<sup>1</sup>

a. Per OC-3

(1) 0-8 miles

	Nonrecurring Charge	Month to Month	24 to 48 Months	49 to 72 Months	73 to 96 Months	USOC
(a) Fixed	\$190.00	\$2,100.00	\$1,475.00	\$1,225.00	\$1,025.00	1LPS8
(b) Per Mile	-	225.00	155.00	140.00	125.00	1LPE8
(2) 9-25 miles						
(a) Fixed	190.00	2,600.00	2,150.00	2,000.00	1,900.00	1LPS9
(b) Per Mile	-	225.00	155.00	140.00	125.00	1LPE9
(3) Over 25 miles						
(a) Fixed	190.00	3,600.00	3,150.00	2,900.00	2,700.00	1LPS6
(b) Per Mile	-	225.00	155.00	140.00	125.00	1LPE6

4. Fiber OC-12 service<sup>1</sup>

a. Per OC-12

(1) 0-8 miles

(a) Fixed	190.00	4,000.00	3,300.00	3,000.00	2,700.00	1LPS8
(b) Per Mile	-	400.00	320.00	290.00	260.00	1LPE8
(2) 9-25 miles						
(a) Fixed	190.00	5,500.00	4,800.00	4,500.00	4,200.00	1LPS9
(b) Per Mile	-	400.00	320.00	290.00	260.00	1LPE9
(3) Over 25 miles						
(a) Fixed	190.00	7,200.00	6,500.00	6,200.00	5,900.00	1LPS6
(b) Per Mile	-	400.00	320.00	290.00	260.00	1LPE6

5. Fiber OC-48 service<sup>1</sup>

a. Per OC-48

(1) 0-8 miles

(a) Fixed	190.00	7,800.00	6,500.00	5,800.00	5,200.00	1LPS8
(b) Per Mile	-	600.00	500.00	450.00	400.00	1LPE8
(2) 9-25 miles						
(a) Fixed	190.00	8,700.00	7,300.00	6,700.00	6,100.00	1LPS9
(b) Per Mile	-	600.00	500.00	450.00	400.00	1LPE9
(3) Over 25 miles						
(a) Fixed	190.00	10,000.00	8,600.00	7,900.00	7,100.00	1LPS6
(b) Per Mile	-	600.00	500.00	450.00	400.00	1LPE6

**Note 1:** Month to month rates are only available at the end of a contract rate period.

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### B7.4 Fiber Service (Cont'd)

#### B7.4.4 Rates and Charges (Cont'd)

**D. Interoffice Channels (Cont'd)** (These channels are furnished between central offices. Rates are based upon airline distance between central offices.)

6. Fiber OC-192 service<sup>1</sup>

a. Per OC-192

(1) 0-8 miles

		Nonrecurring Charge	Month to Month	24 to 48 Months	49 to 72 Months	73 to 96 Months	USOC
(a)	Fixed	\$190.00	\$19,000.00	\$15,500.00	\$13,800.00	\$12,500.00	1LPS8
(b)	Per Mile	-	600.00	500.00	450.00	400.00	1LPE8
(2)	9-25 miles						
(a)	Fixed	190.00	19,900.00	15,900.00	14,200.00	12,700.00	1LPS9
(b)	Per Mile	-	600.00	500.00	450.00	400.00	1LPE9
(3)	Over 25 miles						
(a)	Fixed	190.00	22,000.00	17,700.00	15,800.00	14,100.00	1LPS6
(b)	Per Mile	-	600.00	500.00	450.00	400.00	1LPE6
7.	Central Office Channel Interfaces						
(a)	Per DS1	125.00	24.00	20.00	17.00	16.00	1PQE8
(b)	Per DS3	125.00	115.00	95.00	90.00	85.00	1PQE3
(c)	Per STS-1	125.00	175.00	140.00	130.00	120.00	1PQE4
(d)	Per OC-3 (2 Fiber)	200.00	240.00	190.00	175.00	160.00	1PQE5
(e)	Per OC-3 (4 Fiber)	200.00	425.00	330.00	300.00	270.00	1PQE6
(f)	Per OC-12 (2 Fiber)	360.00	640.00	495.00	450.00	405.00	1PQEE
(g)	Per OC-12 (4 Fiber)	400.00	1,280.00	990.00	900.00	810.00	1PQED
(h)	Per OC-48 (2 Fiber)	500.00	1,600.00	1,325.00	1,215.00	1,050.00	1PQEO
(i)	Per OC-48 (4 Fiber)	500.00	3,200.00	2,650.00	2,430.00	2,100.00	1PQEF
(j)	Per 28 DS1 Channel System	125.00	600.00	490.00	465.00	450.00	MQ3CO
(k)	Per DS1 on 28 DS1 Channel System	125.00	15.00	8.00	7.00	6.00	1PQEA
(l)	Per STS-1 Channel System	125.00	600.00	490.00	465.00	450.00	1PQE7
(m)	Per OC-3 Channel System	125.00	1,325.00	1,100.00	1,000.00	900.00	1PQE9
(n)	Per OC-12 Channel System	125.00	2,650.00	2,200.00	2,000.00	1,800.00	1PQ12
(o)	Per OC-48 Channel System	125.00	5,490.00	4,410.00	4,050.00	3,510.00	1PQ48
(p)	Per 1000 Mbps <sup>2</sup>	400.00	740.00	520.00	475.00	425.00	1PQEK
(q)	Per 10 Mbps <sup>3</sup>	450.00	500.00	175.00	155.00	140.00	1PQEH
(r)	Per 100 Mbps <sup>3</sup>	450.00	540.00	210.00	190.00	170.00	1PQ EJ
(s)	Per Fractional 1000 Mbps <sup>3</sup>						
	- 50 Mbps	450.00	520.00	190.00	170.00	150.00	1PQEM
	- 150 Mbps	450.00	560.00	230.00	210.00	190.00	1PQEN
	- 300 Mbps	450.00	600.00	300.00	280.00	260.00	1PQER
	- 450 Mbps	450.00	640.00	340.00	310.00	290.00	1PQES
	- 600 Mbps	450.00	700.00	380.00	340.00	320.00	1PQET

**Note 1:** Month to month rates are only available at the end of a contract period.

**Note 2:** Available only for systems installed on or after November 12, 2003 that do not contain a Optical Customer Termination or a Optical Serving Wire Center Termination. 1000 Mbps transport channel interfaces do not contain any monitoring capability above the physical layer.

**Note 3:** Available only for systems installed on or after December 2, 2004, that do not contain a Optical Customer Termination or a Optical Serving Wire Center Termination. 10 Mbps, 100 Mbps and Fractional 1000 Mbps transport channel interfaces do not contain any monitoring capability above the physical layer.

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### B7.4 Fiber Service (Cont'd)

#### B7.4.4 Rates and Charges (Cont'd)

##### E. Concatenation Rearrangement Charge

1. Per OC-3, OC-12 or OC-48 optical circuit rearranged as concatenated or non-concatenated subsequent to the initial installation of the circuit

Nonrecurring Charge	
Initial	Subsequent
\$0	\$500.00

USOC  
NRCCN

##### F. C-Bit Parity

(a) Per circuit

1. Per DS3 circuit rearranged to have C-Bit Parity added or removed subsequent to the initial installation of the circuit.

0	500.00
---	--------

NRCCB

##### G. Moves

(a) Per circuit

1. A move involves a change in the physical location of one of the following:
  - a. the point of interface at the customer premises, or
  - b. the customer's premises
2. When the move is to a new location in Company territory within the same state, the charge for the move is equal to the sum of all nonrecurring charges applicable to a new Fiber service arrangement at the new location.

When the move is to a new location in Company territory in a different state, the move will be treated as a discontinuance and start of service. The customer will be responsible for satisfying all outstanding minimum period charges for the discontinued service. All applicable nonrecurring charges at the new location will apply.

### B7.5 Reserved for Future Use

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## B7. DIGITAL NETWORK SERVICE

### B7.6 Reserved for Future Use

### B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (FiberRing) Service

#### B7.7.1 General

- A. FiberRing service is a dedicated, high capacity, network designed to provide increased reliability and functionality via a self-healing ring topology between multiple customer designated locations and Company Central Offices where facilities can be made available as determined by the Company. This network consists of fiber routed through local, alternate central office, internodal and/or interoffice channel facilities that transmit DS1, DS3, STS-1, OC-3, OC-12, OC-48, **OC-192**, 10 Mbps, 100 Mbps, Fractional 1000 Mbps and/or 1000 Mbps channel services simultaneously over primary and alternate paths between customer designated locations and Company Central Offices. This ring topology will continually monitor DS1, DS3, STS-1, OC-3, OC-12, OC-48, OC-192, 10 Mbps, 100 Mbps, Fractional 1000 Mbps and/or 1000 Mbps service quality, detect any failure within the system, and automatically self-heal itself around a point of failure to ensure the flow of DS1, DS3, STS-1, OC-3, OC-12, OC-48, OC-192, 10 Mbps, 100 Mbps, Fractional 1000 Mbps and/or 1000 Mbps services between locations within the self-healing network. FiberRing service further provides an adjunct optional feature and function capability for the establishment of a virtual packet ring which may be utilized for the transport of Basic Shared Ethernet LAN traffic on a best effort basis. For locations where a customer requests FiberRing service and facilities are not available, construction charges will apply as set forth in Section B5. for cases involving extraordinary cost.

Customers may purchase FiberRing asymmetrical<sup>1</sup> optical interfaces up to the full ring capacity at a customer node or central office node, as shown in the Channel Interface chart following. For example, an OC-12 FiberRing may have an OC-12 asymmetrical optical interface and an OC-48 FiberRing may have an OC-48 asymmetrical optical interface. The interface capacity cannot exceed the node capacity of the host FiberRing.

- B. FiberRing service is available at OC-3, OC-3+, OC-12, OC-48, 48+, OC-192 and OC-192+ capacities. OC-3 FiberRing service is available as an individual service or in an Overlay Ring Arrangement riding the customer's host OC-12, OC-48, OC-48+, OC-192 or OC-192+ FiberRing service. OC-3 FiberRing service provides an equivalent capacity of 3 DS3s, or any combination thereof not to exceed an OC-3 capacity.

Channel Interface Capacity Reallocation allows the customer to reallocate channel interfaces on a node subsequent to the initial installation of the channel interfaces.

Effective December 2, 2004, OC-3+ FiberRing service is not available for new individual service installations. Existing OC-3+ FiberRing service installed as an individual service, or in combination with OC-12 FiberRing service, as of December 2, 2004, may continue in place. OC-3+ FiberRing service Overlay Ring Arrangements riding the customer's host OC-48, OC-48+, OC-192 or OC-192+ FiberRing service are available for host rings installed prior to December 2, 2004. OC-3+ FiberRing service provides an equivalent OC-3 capacity, not to exceed 3 DS3s at each node, with a maximum ring capacity of 12 DS3s, not to exceed an OC-12 ring capacity.

When a customer orders OC-3+ FiberRing service in combination with OC-12 FiberRing service, capacity and channel interface availability at each Customer Node and Central Office Node location is determined by the size node ordered by the customer.

OC-12 FiberRing service is available as an individual service, or in combination with OC-3+ FiberRing service, or in an Overlay Ring Arrangement riding the customer's host OC-48, OC-48+, OC-192, or OC-192+ FiberRing service. OC-12 FiberRing service provides an equivalent capacity of 12 DS3s.

OC-48 FiberRing service is available as an individual service, or with overlaying rings in capacities of OC-3, OC-3+ and/or OC-12, or in an Overlay Ring Arrangement riding the customer's OC-192 or OC-192+ FiberRing service. OC-48 FiberRing service provides an equivalent capacity of 48 DS3s.

**Note 1:** An asymmetrical arrangement allows a customer to input a lower level interface at one node and aggregate onto a higher level optical interface at another Customer Node. For example, the customer has a four node OC-48 FiberRing with DS3 interfaces at Nodes A, B and C. The customer wants to aggregate multiple DS3s to Node location D, which can be an OC-48 optical interface. The customer can aggregate up to 48 DS3 interfaces to the OC-48 optical interface at Node D via Connecting Facility Assignments (CFA) in the ordering process.

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## **B7. DIGITAL NETWORK SERVICE**

### **B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (FiberRing) Service (Cont'd)**

#### **B7.7.1 General (Cont'd)**

##### **B. (Cont'd)**

OC-48+ FiberRing service is available as an individual bi-directional service, or with overlaying rings in capacities of OC-3, OC-3+ and/or OC-12, or in an Overlay Ring Arrangement riding the customer's OC-192+ FiberRing service. It provides equivalent capacity of 24 DS3s between consecutive node locations on the ring. The maximum capacity of the OC48+ FiberRing service is determined by the number of Customer and Central Office nodes on the ring.

OC-192 FiberRing service is available as an individual service, or with overlaying rings in capacities of OC-3, OC-3+, OC-12 and/or OC-48. OC-192 FiberRing service provides an equivalent capacity of 192 DS3s.

OC-192+ FiberRing service is available as an individual bi-directional service, or with overlaying rings in capacities of OC-3, OC-3+, OC-12, OC-48 and/or OC-48+. It provides equivalent capacity of 96 DS3s between consecutive node locations on the ring. The maximum capacity of the OC-192+ FiberRing service is determined by the number of Customer and Central Office nodes on the ring.

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### B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (FiberRing) Service (Cont'd)

#### B7.7.1 General (Cont'd)

##### B. (Cont'd)

FiberRing Service Channel Interfaces are available as follows:

<u>Channel Interfaces</u>	<u>NODES</u>						
	OC-3	OC-3+	OC-12	OC-48	OC-48+	OC-192	OC-192+
DS1	Yes	Yes	No <sup>1</sup>	Yes <sup>1</sup>	No <sup>1</sup>	Yes	No <sup>1</sup>
DS3	Yes	Yes	Yes	Yes	Yes	Yes	Yes <sup>1</sup>
STS-1	Yes	Yes	Yes	Yes	Yes	Yes	Yes <sup>1</sup>
OC-3	No	No	Yes	Yes	Yes	Yes	Yes
OC-12	No	No	No	Yes	Yes	Yes	Yes
OC-48	No	No	No	No	No	Yes	Yes
OC-3(Asymmetrical Arrangement)	Yes	No	Yes	Yes	Yes	Yes	Yes
OC-12(Asymmetrical Arrangement)	No	No	Yes	Yes	Yes	Yes	Yes
OC-48(Asymmetrical Arrangement)	No	No	No	Yes	Yes	Yes	Yes
OC-192(Asymmetrical Arrangement)	No	No	No	No	No	Yes	Yes
28DS1ChannelSystem (DS3)	Yes	Yes	Yes	Yes	Yes	Yes	Yes <sup>2</sup>
28DS1ChannelSystem(STS-1)	Yes	Yes	Yes	Yes	Yes	Yes	Yes <sup>2</sup>
DS3(AsymmetricalwithDS1)	Yes	Yes	No	No	No	No	No
DS3(AsymmetricalwithFlexDS1)	No	No	Yes	Yes	Yes	Yes	Yes
DS1WithinanSTS-1Asymmetrical Arrangement	Yes	Yes	No	No	No	No	No
1000Mbps	No	No	No	Yes <sup>2</sup>	Yes <sup>2</sup>	Yes	Yes <sup>2</sup>
10Mbps	Yes <sup>3</sup>	No	Yes <sup>4</sup>	Yes <sup>4</sup>	Yes <sup>4</sup>	Yes <sup>4</sup>	Yes <sup>4</sup>
100Mbps	No	No	Yes <sup>4</sup>	Yes <sup>4</sup>	Yes <sup>4</sup>	Yes <sup>4</sup>	Yes <sup>4</sup>

**Note 1:** DS1 interfaces are available via OC-3, OC-3+ or 28 DS1 Channel System arrangements only for OC-12, OC-48+ and OC-192+ nodes and for OC-48, OC-48+ and OC-192+ FiberRing service Nodes installed prior to November 12, 2003. For OC-48 and OC-192 nodes, installed on or after that date to December 2, 2004. DS1 interfaces are available with a maximum quantity per node of 108.

**Note 2:** DS3, STS-1, channel systems and 1000 Mbps interfaces are only available for nodes installed after November 12, 2003. 1000 Mbps transport channel interfaces do not contain any monitoring capability above the physical layer.

**Note 3:** 10 Mbps and Fractional 1000 Mbps at 50 Mbps interfaces only are available on OC-3 rings installed on or after May 11, 2006.

**Note 4:** Available on rings installed on or after December 2, 2004. 10 Mbps, 100 Mbps and Fractional 1000 Mbps transport channel interfaces do not contain any monitoring capability above the physical layer.

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## B7. DIGITAL NETWORK SERVICE

### B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (FiberRing) Service (Cont'd)

#### B7.7.1 General (Cont'd)

##### B. (Cont'd)

FiberRing Service Channel Interfaces are available as follows:

<b>Channel Interfaces</b>	<b>NODES</b>						
	<b>OC-3</b>	<b>OC-3+</b>	<b>OC-12</b>	<b>OC-48</b>	<b>OC-48+</b>	<b>OC-192</b>	<b>OC-192+</b>
Fractional1000Mbpsat50Mbps,150Mbps,300Mbpsor450Mbps	Yes <sup>1</sup>	No	Yes <sup>2</sup>	Yes <sup>2</sup>	Yes <sup>2</sup>	Yes <sup>2</sup>	Yes <sup>2</sup>
Fractional1000Mbpsat600Mbps	No	No	No	Yes <sup>2</sup>	Yes <sup>2</sup>	Yes <sup>2</sup>	Yes <sup>2</sup>
FlexDS1 <sup>3</sup>	No	No	Yes	Yes	Yes <sup>4</sup>	Yes	Yes <sup>4</sup>
100MbpsMetroEthernetBackbone	Yes <sup>5</sup>	Yes <sup>5</sup>	Yes <sup>5</sup>	Yes <sup>5</sup>	Yes <sup>5</sup>	Yes <sup>5</sup>	Yes <sup>5</sup>
1000MbpsMetroEthernet Backbone	No	No	No	Yes <sup>5</sup>	Yes <sup>5</sup>	Yes <sup>5</sup>	Yes <sup>5</sup>

**Note 1:** 10 Mbps and Fractional 1000 Mbps at 50 Mbps interfaces only are available on OC-3 rings installed on or after May 11, 2006.

**Note 2:** Available on rings installed on or after December 2, 2004. 10 Mbps, 100 Mbps and Fractional 1000 Mbps transport channel interfaces do not contain any monitoring capability above the physical layer.

**Note 3:** Effective December 2, 2004, DS1 interfaces for OC-12, OC-48 or OC-192 rings installed on or after this date will be installed as a Flex DS1 interface. The maximum number of DS1 circuits available in a system is 108.

**Note 4:** Flex DS1 capabilities are as described previously in this Section for OC-48+ FiberRing service and OC-192+ FiberRing service. The maximum number of DS1 circuits available in a system is 108.

**Note 5:** 100 Mbps and 1000 Mbps Metro Ethernet Backbone interfaces are for use when FiberRing service is utilized for transport of a customer's Metro Ethernet service. 100 Mbps Metro Ethernet Backbone interfaces are further defined regarding the number of STS-1s, utilized in conjunction with the interface. The 100 Mbps (3-STs-1) Metro Ethernet Backbone interface is not available for OC-3 nodes.

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**B7. DIGITAL NETWORK SERVICE****B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (FiberRing) Service (Cont'd)****B7.7.1 General (Cont'd)****B. (Cont'd)**

FiberRing service OC-3, OC-12, or OC-48 channel interfaces are associated with optical circuits within a FiberRing service arrangement. These optical circuits may be provisioned as concatenated. When an optical circuit is provisioned as concatenated, the multiple STS-1s within the optical circuit are provided as a single entity with a single overhead channel.

FiberRing Service channel interfaces for OC-3, OC-12, OC-48 and OC-192<sup>1</sup> asymmetrical arrangements are associated with optical circuits within a FiberRing Service arrangement. These optical circuit asymmetrical channel interfaces are non-concatenated and may not be provisioned as concatenated.

FiberRing service interfaces may be ordered as asymmetrical (i.e., a circuit enters one node at a lower level interface and exits at another node at a higher level interface). For example, a customer may have a service that connects to a ring via an OC-3 interface at a node. That service is then transported around the ring and connects via an OC-12 interface to another of the customer's services. The allowable asymmetrical interface arrangements for the various ring sizes are as shown in Technical Reference TR-73582.

The DS3 (Asymmetrical with DS1) interface allows a customer to aggregate DS1s originating from multiple nodes on a ring into a single DS3 interface at a designated node. A DS3 (Asymmetrical with DS1) interface has the capacity to aggregate 28 DS1s.

The DS1 within an STS-1 Asymmetrical Arrangement interface rate element applies in lieu of the STS-1 interface for the higher level termination of an asymmetrical arrangement when the lower level interface is a DS1.

FiberRing Service Overlay Ring Arrangements are available as follows:

<u>OVERLAYING</u> <u>FiberRing Service</u>	<u>Host FiberRing Service</u>				
	OC-12	OC-48	OC-48+	OC-192	OC-192+
OC-3	X	X	X	X	X
OC-3+		X	X	X	X
OC-12		X	X	X	X
OC-48				X	X
OC-48+					X

- C. FiberRing service is connectible at Company central offices to any compatible high capacity service as provided in Section B7. of this Tariff and to Broadband Exchange Line Service at compatible data rates (e.g., 1.586 Mbps) as may be provided in the General Customer Services Tariff. Rates and charges for such other services are as set forth in the applicable sections of this Tariff for such other services.
- D. The customer must provide suitable floor space, controlled environment, and source of non-switched suitable power to support this service.
- E. Where the customer provides two separate entrance facility cable routes for FiberRing service, the primary and alternate entrance facilities will be separate and will enter the customer node over such different routes. When the customer requests a connection at a Customer Node via two Local Channels and Telephone Company facilities do not exist for the second Local Channel, the Telephone Company may provide an equivalent second Local Channel via an existing alternate route. When facilities become available for the second Local Channel, the Telephone Company may rearrange the alternate route at any time.
- F. The compatibility requirements, technical specifications, and generic requirements for FiberRing service terminated at the customer's designated locations are referenced in Technical Reference ANSI T1.404-1989, and ANSI T1.403-1989.
- G. DS3 interface combinations and technical specifications are referenced in Bellcore TR-INS-000342.
- H. DS1 interface combinations and technical specifications are referenced in Bellcore TR-NPL-000054.

**Note 1:** OC-192 channel interfaces are available only in an asymmetrical arrangement (non-concatenated).



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### **B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (FiberRing) Service (Cont'd)**

#### **B7.7.1 General (Cont'd)**

- I.** FiberRing service DS3 high capacity service channels have a performance objective of 99.5 percent error-free seconds over a continuous twenty-four hour period. Self-healing multi-nodal DS1 high capacity service channels have a performance objective of 99.95 percent error-free seconds over a continuous twenty-four hour period.

- J. Reserved For Future Use**

- K.** FiberRing service ordered and installed after April 27, 2006, is available with an optional feature and function capability in which a customer may utilize all or part of his FiberRing service to establish an adjunct virtual packet ring. A virtual packet ring is separate and apart from the SONET capabilities associated with high capacity channel transport via DS1 through OC-48 interfaces. A virtual packet ring provides the capability for a customer to transport Ethernet LAN traffic utilizing Basic Shared Ethernet LAN Access Links that have best effort service capabilities in which the throughput associated with a virtual packet ring are controlled/affected by the customer's traffic and network configuration.

FiberRing service Basic Shared Ethernet LAN Access Links are available based on equipment capability and a customer's requested service configuration. Upon a customer request for Basic Shared Ethernet LAN Access Links, equipment capability associated with the requested configuration shall be determined. Upon successful determination of the functionality of the customer's requested arrangement, the requested service shall be made available.

Basic Shared Ethernet LAN Access Links are further defined per TR 73582. Basic Shared Ethernet LAN Access Links are available only at Customer Nodes.

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**B7. DIGITAL NETWORK SERVICE****B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (FiberRing) Service (Cont'd)****B7.7.1 General (Cont'd)****K. (Cont'd)**

10 Mbps Basic Shared Ethernet LAN, 100 Mbps Basic Shared Ethernet LAN and/or Fractional 1000 Mbps Basic Shared Ethernet LAN Customer Channel Interfaces provide multipoint functionality, i.e., Ethernet frames are delivered to two or more locations on a customer's FiberRing service on a best effort basis. This is a multipoint connection with a bandwidth defined by a Virtual Packet Ring. A Virtual Packet Ring Connection is the medium by which two or more locations exchange Ethernet frames. The bandwidth of the Virtual Packet Ring Connection is determined by the number of STS1's reserved for the Virtual Packet Ring Connection. In order for a customer to access the Virtual Packet Ring, FiberRing service Customer Nodes must have a 10 Mbps Basic Shared Ethernet LAN, 100 Mbps Basic Shared Ethernet LAN and/or Fractional 1000 Mbps Basic Shared Ethernet LAN interface.

FiberRing service Basic Shared Ethernet LAN Access Links are available as follows:

**CUSTOMER NODES****Basic Shared Ethernet LAN**

<b><u>Access Links</u></b>	<b><u>OC-3</u></b>	<b><u>OC-3+</u></b>	<b><u>OC-12</u></b>	<b><u>OC-48</u></b>	<b><u>OC-48+</u></b>	<b><u>OC-192</u></b>	<b><u>OC-192+</u></b>
10Mbps - Electrical	Yes	No	Yes	Yes	Yes	Yes	Yes
100Mbps -Electrical	No	No	Yes	Yes	Yes	Yes	Yes
100Mbps - Optical	No	No	Yes	Yes	Yes	Yes	Yes
Fractional1000Mbps-Opticalat50Mbps	Yes	No	Yes	Yes	Yes	Yes	Yes
Fractional1000Mbps-Opticalat150Mbps, 300Mbpsor450Mbps	No	No	Yes	Yes	Yes	Yes	Yes
Fractional1000Mbps-Opticalat600Mbps or 1000Mbps	No	No	No	Yes	Yes	Yes	Yes

A connection to a Basic Shared Ethernet Access Link at a Central Office Node on a ring may be made utilizing a comparable Fractional 1000 Mbps Central Office Channel Interface.

The Virtual Packet Ring sizes available for the various FiberRing service rings capacities and the Basic Shared Ethernet Access Links available on a Virtual Packet Ring are as follows:

**VIRTUAL PACKET RING SIZE (MBPS)**

<b><u>FiberRing Service Ring Capacity</u></b>	<b><u>50</u></b>	<b><u>150</u></b>	<b><u>300</u></b>	<b><u>450</u></b>	<b><u>600</u></b>	<b><u>1000</u></b>
OC-3	Yes	No	No	No	No	No
OC-12	Yes	Yes	Yes	Yes	No	No
OC-48orOC-48+	Yes	Yes	Yes	Yes	Yes	Yes
OC-192orOC-192+	Yes	Yes	Yes	Yes	Yes	Yes

**VIRTUAL PACKET RING SIZE (MBPS)**

<b><u>Basic Shared Ethernet Channel Interfaces</u></b>	<b><u>50</u></b>	<b><u>150</u></b>	<b><u>300</u></b>	<b><u>450</u></b>	<b><u>600</u></b>	<b><u>1000</u></b>
10MbpsBasicSharedEthernetLANAccessLink- Electrical	Yes	Yes	Yes	Yes	Yes	Yes
100MbpsBasicSharedEthernetLANAccessLink- Electrical	No	Yes	Yes	Yes	Yes	Yes
100MbpsBasicSharedEthernetLANAccessLink- Optical	No	Yes	Yes	Yes	Yes	Yes
Fractional1000MbpsBasicSharedEthernetLAN AccessLink:						
-Opticalat50Mbps	Yes	Yes	Yes	Yes	Yes	Yes
-Opticalat150Mbps	No	Yes	Yes	Yes	Yes	Yes
-Opticalat300Mbps	No	No	Yes	Yes	Yes	Yes
-Opticalat450Mbps	No	No	No	Yes	Yes	Yes
-Opticalat600Mbps	No	No	No	No	Yes	Yes
-Opticalat1000Mbps	No	No	No	No	No	Yes

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**B7. DIGITAL NETWORK SERVICE****B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (FiberRing) Service (Cont'd)****B7.7.1 General (Cont'd)**

- L. FiberRing service ordered on or after June 15, 2009 will have an optional feature and function associated with Virtual Packet Rings (VPR). Customers will be able to transport Metro Ethernet Service over FiberRing Metro Ethernet Access Links. Connections between Metro Ethernet and FiberRing are at FiberRing central office nodes. The VPR will broadcast the Metro Ethernet to all Metro Ethernet Access Links associated with a specific VPR. Since this is a best effort service, the Company does not guarantee any performance levels including packet loss, latency or jitter of the customer's network if the customer chooses to oversubscribe their network. Problems associated with throughput due to the best effort service capabilities of a Virtual Packet Ring do not constitute a service interruption for which a credit allowance would apply.

Virtual Packet Ring will continue to function as a Best Effort service as described in K. proceeding.

The connection at the central office between Metro Ethernet and FiberRing is Optical. The mixing of Access Link traffic and Metro Ethernet Access Link traffic on the same VPR is not supported. An out of service condition occurs when an existing Access Link is converted to a Metro Ethernet Access Link. Each node on the FiberRing will connect to the metro Ethernet circuit via the Virtual Packet Ring and Metro Ethernet Access Links. Metro Ethernet Access Links will provide the equipment essential to Metro Ethernet reporting, statistics and customer network management.

Reconfiguration associated with Customer Network Management will not be allowed on Metro Ethernet Access Links.

FiberRing service Basic Shared Ethernet LAN - Metro Ethernet Access Links are available as follows:

<b>Metro Ethernet Access Links -</b>	<b>NODES</b>						
	<b>OC-3</b>	<b>OC-3+</b>	<b>OC-12</b>	<b>OC-48</b>	<b>OC-48+</b>	<b>OC-192</b>	<b>OC-192+</b>
<del>Fractional 1000 Mbps at:</del>	<u>No</u>	<u>No</u>	<u>Yes</u>	<u>Yes</u>	<u>Yes</u>	<u>Yes</u>	<u>Yes</u>
150 Mbps	No	No	Yes	Yes	Yes	Yes	Yes
300Mbps	No	No	Yes	Yes	Yes	Yes	Yes
450Mbps	No	No	No	Yes	Yes	Yes	Yes
600Mbps	No	No	No	Yes	Yes	Yes	Yes
1000Mbps	No	No	No	Yes	Yes	Yes	Yes

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## **B7. DIGITAL NETWORK SERVICE**

### **B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (FiberRing) Service (Cont'd)**

#### **B7.7.2 Application of Rates**

- A. Monthly rates and charges as specified in B7.7.4 following apply for each FiberRing service. Customers must specify network capacity at the time of the initial order. In an Overlay Ring Arrangement where a customer's overlaying FiberRing service rides the customer's host FiberRing service, the overlay ring will share the transport of the host ring between common node locations. Rate categories at OC-3, OC-3+, OC-12, OC-48, OC-48+ and OC-192+ capacity levels include Customer Nodes, Central Office Nodes, Local Channels, Alternate Central Office Channels, Interoffice Channels and Internodal Channels. Channel Interfaces are required at each node on the network and must be associated with a FiberRing service. An OC-3 Overlay Ring Arrangement requires an OC-3 Channel Interface at each node involved. An OC-3+ or OC-12 Overlay Ring Arrangement requires an OC-12 Channel Interface at each node involved. An OC-48/OC-48+ Overlay Ring arrangement requires an OC-48 Channel Interface at each node involved. In Overlay Ring Arrangements, the customer must order a Channel Interface for each entry to or exit from the host ring. In all other situations, the number of Channel Interfaces ordered will depend on whether the customer desires a working interface, or a working interface and a protection interface. The quantity of channel interfaces ordered may not exceed the capacity ordered. When a 28 DS1 Channel System is utilized to activate DS1 channels, the appropriate number of DS1 Channel Interfaces are required in lieu of an originating or terminating DS3 Channel Interface. FiberRing service interfaces may be ordered as asymmetrical (i.e., a circuit enters one node at a lower level interface and exits at another node at a higher level interface).
- B. Nonrecurring charges for Local, Alternate Central Office, Interoffice and Internodal Channels apply for each channel. When the customer requests two separate routes and the routing is provided as described in B7.7.1.E. preceding, charges apply for the Local Channels and any Interoffice Channels on the requested route. If the Company rearranges the alternate route, nonrecurring charges do not apply for the second Local Channel. Recurring charges for Local, Alternate Central Office, Interoffice and Internodal Channels apply for each quarter air mile increment of the channel. Fractions of a quarter mile will always round up to the next quarter air mile before determining the mileage and applying the rate. For channels which are less than one quarter mile, a minimum charge of one quarter mile applies.
- When the customer requests a connection at a Customer Node via two Local Channels and Company facilities do not exist for the second Local Channel, the Company may provide an equivalent second Local Channel as an Alternate Central Office Channel via an existing alternate route. In such event, the customer will be billed Local Channel Mileage charges for such Alternate Central Office Channel, since the customer did not specifically request such option. When facilities become available for the second Local Channel, the Company may rearrange the alternate route at any time.
- C. For Internodal Channels, charges apply as appropriate either for the same wire center area or contiguous serving wire center areas, as specified in B7.7.4.A.4. Internodal Channel charges will not apply for FiberRing nodes that are located in the same room or bay.
- D. Nonrecurring charges for Customer Nodes and Central Office Nodes apply per node. Recurring rates for Customer and Central Office Nodes also apply per node. The rates for Customer Channel Interfaces apply for each origination and termination of an activated interface at the Customer Node. Nonrecurring charges apply for each interface which originates or terminates at a Customer Node. The recurring rate applies on a per Customer Node basis for each origination and termination of an interface at a Customer Node.

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## B7. DIGITAL NETWORK SERVICE

### B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (FiberRing) Service (Cont'd)

#### B7.7.2 Application of Rates (Cont'd)

- E.** FiberRing service OC-3, OC-12, or OC-48 channel interfaces are associated with optical circuits within a FiberRing service arrangement. These optical circuits may be provisioned as concatenated. When an optical circuit is provisioned as concatenated, the multiple STS-1s within the optical circuit are provided as a single entity with a single overhead channel. When an optical circuit is provisioned as concatenated at the time the circuit is installed, there is no additional charge for provisioning it as concatenated. When an existing non-concatenated optical circuit is requested to be reconfigured as concatenated, a concatenation rearrangement charge shall apply. This rearrangement charge shall also apply for existing concatenated circuits that are requested to be converted to non-concatenated.
- F.** FiberRing service interfaces may be ordered as asymmetrical (i.e., a circuit enters one node at a lower level interface and exits at another node at a higher level interface). For example, a customer may have a service that connects to a ring via an OC-3 interface at a node. That service is then transported around the ring and connects via an OC-12 interface to another of the customer's services. The allowable asymmetrical interface arrangements for the various ring sizes are as shown in Technical Reference TR-73582. The interface rates for asymmetrical arrangements are the same as the rates for symmetrical arrangements except as follows:
  - For lower level DS1 interfaces in an asymmetrical arrangement with an STS-1 interface, the DS1 within an STS-1 Asymmetrical Arrangement interface rate element applies in lieu of the STS-1 interface for the higher level termination.
  - For lower level DS1 interfaces in an asymmetrical arrangement with a DS3 interface, the DS3 (Asymmetrical with DS1) interface rate element applies in lieu of the DS3 interface for the higher level termination of the asymmetrical arrangement
- G.** In addition, customers with DS3 interfaces at the Customer Node electing to connect with DS1 services at a Central Office Node, must obtain a 28 DS1 Channel System, and the appropriate number of DS1 Channel Interfaces. The applicable rate elements for this arrangement are a DS3 Interface at the Customer Node and a 28 DS1 Channel System with DS1 Interfaces at the Central Office Node. The FiberRing service 28 DS1 Channel System does not require a DS3 interface at the Central Office Node. A maximum of 28 DS1 Channel Interfaces can be activated for each 28 DS1 System utilized. Nonrecurring charges apply for each 28 DS1 Channel System. Nonrecurring charges also apply for each DS1 Channel Interface in a 28 DS1 Channel System. The recurring rate applies for each 28 DS1 Channel System and each DS1 Channel Interface in a 28 DS1 Channel System.
- H.** FiberRing service Local Channel, Alternate Central Office Channel and Internodal Channel rates are distance sensitive. They are measured per quarter airline mile or fraction thereof from the customer's designated premises to the Serving Wire Center, Alternate Central Office, or other Customer Nodes. V&H coordinates are derived for each customer location through the use of longitude and latitude measurements. Using the V&H coordinate method as set forth in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. No. 4, compute the mileage, convert to quarter miles, and multiply the appropriate per quarter mile rate by the distance involved. Any portion of a quarter mile will always round up to the next quarter mile before determining the mileage and applying the rate. For channels which are less than one quarter mile, a minimum charge of one quarter mile applies.
- I.** The FiberRing service Interoffice Channel mileage is calculated per quarter airline mile between two directly connected central offices on the ring. Interoffice Channel mileage is computed by using the V&H coordinates method as set forth in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. No. 4. To determine the rate to be billed, multiply the appropriate per quarter mile rate by the distance involved. Fractions of a quarter mile always round up to the next quarter mile before determining the mileage and applying the rate. For channels which are less than one quarter mile, a minimum charge of one quarter mile applies.
- J.** A nonrecurring charge applies for FiberRing service Surveillance, one for each Customer Node and each Central Office Node, per FiberRing service rearranged. A nonrecurring charge applies for Reconfiguration, one per reconfiguration of each STS-1 group at each node where such reconfiguration capability is desired. These rate elements apply when the Customer adds FlexServ service to an existing FiberRing service.
- K.** For FiberRing service configured with a Virtual Packet Ring(s), an individual VPR requires multiple (i.e., two or more) Basic Shared Ethernet LAN Access Links.

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## **B7. DIGITAL NETWORK SERVICE**

### **B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (FiberRing) Service (Cont'd)**

#### **B7.7.3 Architecture**

##### **A. FiberRing Service**

The FiberRing service configuration utilizes a multi-nodal ring architecture which is specified jointly by the Company and the customer. The minimum configuration provides dedicated DS3 (44.736 Mbps) and/or DS1 digital services and must include at least three nodes. One node must be a Central Office Node in Company Central Office. The remaining two nodes may be either Central Office Nodes in a Company Central Offices or Customer Nodes at customer designated locations, or one of each. Additional nodes above the three node minimum may be any combination thereof. The maximum number of nodes will be determined based on equipment capability. The nodes are connected by FiberRing service Local Channels, Alternate Central Office Channels, Interoffice Channels and Internodal Channels as applicable. FiberRing service may be connected to other high capacity services only at Central Office Nodes.

Applicable rate elements for this service are:

- Customer Nodes provide ring switching capabilities at customer designated locations other than Telephone Company Premises that are part of FiberRing service. This rate element offers OC-3, OC-3+, OC-12, OC-48, OC-48+, OC-192, or OC-192+ network capacities. A summary of the channel interfaces available with each node are specified in B7.7.1 preceding
- Customer Channel Interface provides DS1, DS3, STS-1, OC-3, OC-12, OC-48, 10 Mbps, 100 Mbps, Fractional 1000 Mbps and/or 1000 Mbps connectivity that may take place at each Customer Node of FiberRing service. The Customer Channel Interface rate element applies for every interface capacity that originates or terminates at a Customer Node
- Central Office Node (at least one), provides ring switching capabilities at Company Central Offices that are a part of FiberRing service. This rate element offers OC-3, OC-3+, OC-12, OC-48, OC-48+, OC-192, or OC-192+ network capacities. A summary of the channel interfaces available with each node are specified in B7.7.1 preceding.
- Central Office Channel Interface provides DS1, DS3, STS-1, OC-3, OC-12, OC-48, 10 Mbps, 100 Mbps, Fractional 1000 Mbps and/or 1000 Mbps connectivity that may take place at each Central Office Node located on FiberRing service. The Central Office Channel Interface rate element applies for every interface capacity that originates or terminates at a Central Office Node. Customers with DS3 interfaces at the Customer Node, electing to connect with DS1 services at a Central Office Node, must obtain a 28 DS1 Channel System. STS-1 interfaces may only connect to other compatible STS-1 services.
- Local Channel (at least one for each Customer Node which is directly connected to the serving wire center), provides for the communications path between a Customer Node and the serving wire center of the premises where located.
- Alternate Central Office Channel (at least one for each Customer Node which is directly connected to an Alternate Central Office), provides for the communications path, where requested, between a Customer Node and an Alternate Central Office.

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## B7. DIGITAL NETWORK SERVICE

### B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (FiberRing) Service (Cont'd)

#### B7.7.3 Architecture (Cont'd)

##### A. FiberRing Service (Cont'd)

- Interoffice Channel (one for each path between each two directly connected Company Central Offices), provides for the communications path between directly connected Company Central Offices located on a FiberRing service.
- Internodal Channel (one for each path between two directly connected Customer Nodes), provides for the communications path, where requested, between two directly connected Customer Nodes located (a) in the same Serving Wire Center area or (b) in the same Office Park/Campus Environment or contiguous property, located in contiguous Serving Wire Center areas.
- Channel Interface Capacity Reallocation (one per node per occurrence), allows the customer to reallocate channel interfaces on a node subsequent to the initial installation of the channel interfaces. For example, a customer may initially allocate, activated or spare, eighty-four DS1s at each node on the ring and may subsequently request Channel Interface Capacity Reallocation to drop one DS3 and fifty-six DS1s at each node, or other combination of DS3s and/or DS1s equivalent to an OC-3 Network Capacity.
- FiberRing service OC-3, OC-12, or OC-48 channel interfaces are associated with optical circuits within a FiberRing service arrangement. These optical circuits may be provisioned as concatenated. When an optical circuit is provisioned as concatenated, the multiple STS-1s within the optical circuit are provided as a single entity with a single overhead channel.
- FiberRing service interfaces may be ordered as asymmetrical (i.e., a circuit enters one node at a lower level interface and exits at another node at a higher level interface). For example, a customer may have a service that connects to a ring via an OC-3 interface at a node. That service is then transported around the ring and connects via an OC-12 interface to another of the customer's services. The allowable asymmetrical interface arrangements for the various ring sizes are as shown in Technical Reference TR-73582.
- When the distance between nodes on a FiberRing service is such that optical signal regeneration is required, then regeneration equipment will be provided at no additional charge to the customer to assure proper operation of the service. In some cases regeneration will be provided via SONET Add/Drop equipment called a Regeneration Node. A Regeneration Node does not contain the capability to add or drop services. A Regeneration Node will appear on a customer's records as a non-rated USOC, as follows:

Regeneration Node, all ring capacities, non-rated

**USOC  
SHNRD**

- FiberRing service Virtual Packet Rings may be established to work with either electrical or optical Basic Shared Ethernet LAN Access Links. A Virtual Packet Ring established associated with electrical access links will only work with electrical Basic Shared Ethernet LAN Access Links and a Virtual Packet Ring established associated with optical access links will only work with optical Basic Shared Ethernet LAN Access Links. Electrical and optical access links may not be mixed on the same Virtual Packet Ring.
- An individual Basic Shared Ethernet LAN Access Link associated with a VPR may not be equal to the size of the VPR and the sum of all or access links on a VPR must be equal to or less than the size (i.e., capacity) of the Virtual Packet Ring. An individual FiberRing service arrangement may have multiple Virtual Packet Rings, up to and including the capacity of the ring.
- Metro Ethernet Access Links must be Optical and must work with an optical VPR. Metro Ethernet Access Links are sized in a static configuration, meaning that they will not allow bursting up to the line speed. This is important when configuring Metro Ethernet, VPR and the Metro Ethernet Access Link. If the Metro Ethernet circuit supports bursting then each Metro Ethernet Access Link needs to be configured to match the maximum bandwidth allowed. The VPR will also need to be configured to match the burst capability.
- Metro Ethernet Access Link service uses the FiberRing service as transport and broadcasts the Metro Ethernet to all Metro Ethernet Access Links associated with a specific VPR. Connection with the Metro Ethernet circuit at the FiberRing central office node is limited to optical connections.

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EFFECTIVE: October 8, 2010

## B7. DIGITAL NETWORK SERVICE

### B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (FiberRing) Service (Cont'd)

#### B7.7.3 Architecture (Cont'd)

##### A. FiberRing Service (Cont'd)

- Metro Ethernet and FiberRing Metro Ethernet Access Links are limited to the following connections:

<u>Metro Ethernet Connection</u>	<u>FiberRing Metro Ethernet Access Link Fractional 1000 Mbps at - Central Office</u>	<u>FiberRing Metro Ethernet Access Link Fractional 1000 Mbps at - Customer Premises</u>
Basic 1000 Mbps	1000 Mbps	1000 Mbps
Premium 100 Mbps Optical (Fixed)	150 Mbps	150 Mbps
Premium 250 Mbps (Fixed)	300 Mbps	300 Mbps
Premium 500 Mbps (Fixed)	600 Mbps	600 Mbps
Premium 100, 250, 500 Mbps (Burst)	1000 Mbps	1000 Mbps
Premium 900 Mbps, 1000 Mbps	1000 Mbps	1000 Mbps
Virtual Ethernet Service 100 Mbps	150 Mbps	150 Mbps
Virtual Ethernet Service 200 Mbps	300 Mbps	300 Mbps
Virtual Ethernet Service 300 Mbps	300 Mbps	300 Mbps
Virtual Ethernet Service 450 Mbps	450 Mbps	450 Mbps
Virtual Ethernet Service 600 Mbps	600 Mbps	600 Mbps
Virtual Ethernet Service 750, 900, 1000 Mbps	1000 Mbps	1000 Mbps

- Customer requested upgrades of FiberRing service will involve a service outage associated with Basic Shared Ethernet LAN Access Links, for which a credit for service outage shall not apply.



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**B7. DIGITAL NETWORK SERVICE****B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (FiberRing) Service (Cont'd)****B7.7.4 Rates and Charges****A. Self-healing Multi-nodal Alternate Route Topology Ring (FiberRing Service)****1. Local Channel Mileage Rates (All Capacities)**

		<b>Nonrecurring Charge</b>	<b>Month To Month</b>	<b>USOC</b>
	(a) Per Local Channel	<b>\$500.00</b>	-	<b>1HVXX</b>
	(b) Per quarter air mile	-	<b>95.00</b>	<b>1HVAX</b>
<b>2.</b>	<b>Alternate Central Office Channel Mileage Rates (All Capacities)</b>			
	(a) Alternate C.O. Channel, per channel	<b>500.00</b>	-	<b>1HAXX</b>
	(b) Per quarter air mile	-	<b>685.00</b>	<b>1HAAX</b>
<b>3.</b>	<b>Interoffice Channel Mileage Rates</b>			
	(a) Fixed, OC-3 capacity	<b>190.00</b>	<b>50.00</b>	<b>1HXFX</b>
	(b) Fixed, OC-12 capacity	<b>190.00</b>	<b>145.00</b>	<b>1HXFX</b>
	(c) Per quarter air mile (OC-3 capacity)	-	<b>35.00</b>	<b>1HXAX</b>
	(d) Per quarter air mile (OC-12 capacity)	-	<b>40.00</b>	<b>1HXAX</b>
	(e) Fixed, OC-3+ capacity	<b>190.00</b>	<b>145.00</b>	<b>1HXFX</b>
	(f) Fixed, OC-48 and OC-48+ capacity	<b>190.00</b>	<b>340.00</b>	<b>1HXFX</b>
	(g) Fixed, OC-192 and OC-192+ capacity	<b>240.00</b>	<b>770.00</b>	<b>1HXFX</b>
	(h) Per quarter air mile (OC-3+ capacity)	-	<b>45.00</b>	<b>1HXAX</b>
	(i) Per quarter air mile (OC-48 and 48+ capacity)	-	<b>50.00</b>	<b>1HXAX</b>
	(j) Per quarter air mile (OC-192 and OC-192+ capacity)	-	<b>50.00</b>	<b>1HXAX</b>
<b>4.</b>	<b>Internodal Channel Mileage Rates (All Capacities)</b>			
	(a) Per Internodal Channel, Same Wire Center area	<b>\$500.00</b>	-	<b>1HNXX</b>
	(b) Per quarter air mile, Same Wire Center	-	<b>1,400.00</b>	<b>1HNWX</b>
	(c) Per Internodal Channel, Same Office Park/Campus Environment in Contiguous Serving Wire Center areas	<b>500.00</b>	-	<b>1HNZX</b>
	(d) Per quarter air mile, same Office Park/Campus Environment in contiguous Serving Wire Center areas	-	<b>1,600.00</b>	<b>1HNCX</b>

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EFFECTIVE: October 8, 2010

**B7. DIGITAL NETWORK SERVICE****B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (FiberRing) Service (Cont'd)****B7.7.4 Rates and Charges (Cont'd)****A. Self-healing Multi-nodal Alternate Route Topology Ring (FiberRing Service) (Cont'd)****5. Customer Node (per Node)**

		<b>Nonrecurring Charge</b>	<b>Month to Month</b>	<b>USOC</b>
(a)	OC-3 capacity	\$415.00	\$2,200.00	SHNC3
(b)	OC-3+ capacity	415.00	2,700.00	SHNN5
(c)	OC-12 capacity	455.00	3,400.00	SHNC1
(d)	OC-48 capacity	455.00	5,220.00	SHNN8
(e)	OC-48+ capacity	455.00	5,850.00	SHNN9
(f)	OC-192 capacity	540.00	25,000.00	SHNN6
(g)	OC-192+ capacity	540.00	25,000.00	SHNN2
<b>6.</b>	<b>Customer Channel Interface (per Node)</b>			
(a)	Per DS1	175.00	35.00	SHNBB
(b)	Per DS3	140.00	170.00	SHNZT
(c)	Per STS-1	190.00	220.00	SHN13
(d)	Per OC-3, 2 fiber	190.00	255.00	SHN1D
(e)	Per OC-3, 4 fiber	190.00	515.00	SHN15
(f)	Per OC-12, 2 fiber	340.00	745.00	SHN1F
(g)	Per OC-12, 4 fiber	340.00	1,490.00	SHN19
(h)	Per OC-48, 2 fiber	420.00	1,600.00	SHN1A
(i)	Per OC-48, 4 fiber	420.00	3,200.00	SHN1B
(j)	Per OC-192, 2 fiber	1,600.00	7,500.00	SHNE1
(k)	Per OC-192, 4 fiber	1,600.00	15,000.00	SHNE2
(l)	Per DS1 within an STS-1 Asymmetrical Arrangement	330.00	25.00	SHNBS
(m)	Per DS3 (Asymmetrical with DS1)	360.00	550.00	SHN1T
(n)	Per 1000 Mbps 850 nm Multi-mode	400.00	740.00	SHN1K
(o)	Per 1000 Mbps 1310 nm Single-mode	400.00	740.00	SHN3K
(p)	Per 10 Mbps	450.00	500.00	SHN1M
(q)	Per 100 Mbps (3 STS-1) - Electrical	450.00	540.00	SHN1N
(r)	Per 100 Mbps (3 STS-1) - Optical 1310 nm Single-mode	450.00	540.00	SHN3N
(s)	Per Fractional 1000 Mbps			
	- 50 Mbps 850 nm Multi-mode	450.00	520.00	SHN1O
	- 50 Mbps 1310 nm Single-mode	450.00	520.00	SHN3O
	- 150 Mbps 850 nm Multi-mode	450.00	560.00	SHN1P
	- 150 Mbps 1310 nm Single-mode	450.00	560.00	SHN3P
	- 300 Mbps 850 nm Multi-mode	450.00	600.00	SHN1R
	- 300 Mbps 1310 nm Single-mode	450.00	600.00	SHN3R
	- 450 Mbps 850 nm Multi-mode	450.00	640.00	SHN1U
	- 450 Mbps 1310 nm Single-mode	450.00	640.00	SHN3U
	- 600 Mbps 850 nm Multi-mode	450.00	700.00	SHN1V
	- 600 Mbps 1310 nm Single-mode	450.00	700.00	SHN3V
(t)	Per Flex DS1	360.00	45.00	SHN1Q
(u)	Per 100 Mbps (1 STS-1) Metro Ethernet Backbone	800.00	500.00	SHN1J
(v)	Per 100 Mbps (3 STS-1) Metro Ethernet Backbone	800.00	540.00	SHN33
(w)	Per 1000 Mbps Metro Ethernet Backbone	850.00	740.00	SHN34

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ISSUED: October 8, 2010

EFFECTIVE: October 8, 2010

**B7. DIGITAL NETWORK SERVICE****B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (FiberRing) Service (Cont'd)****B7.7.4 Rates and Charges (Cont'd)****A. Self-healing Multi-nodal Alternate Route Topology Ring (FiberRing Service) (Cont'd)****7. Central Office Node (per Node)**

		<b>Nonrecurring Charge</b>	<b>Month to Month</b>	<b>USOC</b>
(a)	OC-3 capacity	\$385.00	\$1,400.00	SHNH3
(b)	OC-3+ capacity	385.00	2,250.00	SHNH5
(c)	OC-12 capacity	440.00	2,600.00	SHNH1
(d)	OC-48 capacity	440.00	4,860.00	SHNH8
(e)	OC-48+ capacity	440.00	5,490.00	SHNH9
(f)	OC-192 capacity	540.00	25,000.00	SHNH7
(g)	OC-192+ capacity	540.00	25,000.00	SHNH6
<b>8.</b>	<b>Central Office Channel Interface (per Central Office Node)</b>			
(a)	Per DS1	140.00	35.00	SHNCB
(b)	Per DS3	205.00	115.00	SHNYT
(c)	Per STS-1	190.00	150.00	SHNO2
(d)	Per OC-3, 2 fiber	340.00	255.00	SHNCD
(e)	Per OC-3, 4 fiber	340.00	515.00	SHNO4
(f)	Per OC-12, 2 fiber	535.00	745.00	SHNCF
(g)	Per OC-12, 4 fiber	535.00	1,490.00	SHNC9
(h)	Per OC-48, 2 fiber	650.00	1,600.00	SHNCJ
(i)	Per OC-48, 4 fiber	650.00	3,200.00	SHNCK
(j)	Per OC-192, 2 fiber	1,600.00	7,500.00	SHNE3
(k)	Per OC-192, 4 fiber	1,600.00	15,000.00	SHNE3
(l)	Per 28 DS1 Channel System (DS3)	195.00	650.00	SHNW8
(m)	Per 28 DS1 Channel System (STS-1)	195.00	750.00	SHNCS
(n)	Per DS1 on 28 DS1 Channel System (DS3)	170.00	12.00	SHNCA
(o)	Per DS1 on 28 DS1 Channel System (STS-1)	170.00	40.00	SHNCG
(p)	Per DS1 within an STS-1 Asymmetrical Arrangement	360.00	25.00	SHNCH
(q)	Per DS3 (Asymmetrical with DS1)	400.00	550.00	SHNCT
(r)	Per 1000 Mbps	400.00	740.00	SHNCW
(s)	Per 10 Mbps	450.00	500.00	SHNCM
(t)	Per 100 Mbps (3-STs-1)	450.00	540.00	SHNCN
(u)	Per Fractional 1000 Mbps			
	- 50 Mbps	450.00	520.00	SHNCO
	- 150 Mbps	450.00	560.00	SHNCP
	- 300 Mbps	450.00	600.00	SHNCR
	- 450 Mbps	450.00	640.00	SHNCU
	- 600 Mbps	450.00	700.00	SHNCV
(v)	Per Flex DS1	250.00	40.00	SHNCQ
(w)	Per 100 Mbps (1 STS-1) Metro Ethernet Backbone	800.00	500.00	SHNOJ
(x)	Per 100 Mbps (3 STS-1) Metro Ethernet Backbone	800.00	540.00	SHNCX
(y)	Per 1000 Mbps Metro Ethernet Backbone	850.00	740.00	SHNC5

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**B7. DIGITAL NETWORK SERVICE**

### **B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (FiberRing) Service (Cont'd)**

**B7.7.4 Rates and Charges (Cont'd)****A. Self-healing Multi-nodal Alternate Route Topology Ring (FiberRing Service) (Cont'd)****9. Channel Interface Capacity Reallocation**

(a) Per Node, Per occurrence

Nonrecurring Charge	USOC
\$265.00	SHRBC

**10. Concatenation Rearrangement Charge**

(a) Per OC-3, OC-12 or OC-48 optical circuit rearranged as concatenated or non-concatenated subsequent to the initial installation of the circuit

Monthly Rate
\$-

Nonrecurring Charge		USOC
Initial	Subsequent	
\$-	\$500.00	NRCCN

**11. FiberRing Service Rearrangement**

(a) Surveillance, Per Node, per FiberRing service

-

Nonrecurring Charge	USOC
255.00	SHNRR

(b) Reconfiguration, Per STS-1 group, per Node

-

Nonrecurring Charge	USOC
365.00	SHNR1

**12. Basic Shared Ethernet LAN Access Link****(a) Customer Premises Access Link Connection**

	Nonrecurring Charge	Month to Month	24 to 48 Months	49 to 72 Months	73 to 96 Months	USOC
(1) Per 10 Mbps Basic Shared Ethernet LAN Access Link - Electrical <sup>1</sup>	\$2,050.00	\$730.00	NA	NA	NA	SHN1G
(2) Per 100 Mbps Basic Shared Ethernet LAN Access Link - Electrical <sup>1</sup>	2,050.00	780.00	NA	NA	NA	SHN1H
(3) Per 100 Mbps Basic Shared Ethernet LAN Access Link - Optical 1310 nm Single-mode <sup>1</sup>	2,050.00	780.00	NA	NA	NA	SHN11
(4) Per Fractional 1000 Mbps Basic Shared Ethernet LAN Access Link - Optical <sup>1</sup>						
- 50 Mbps 850 nm Multi-mode	2,050.00	750.00	NA	NA	NA	SHN1S
- 50 Mbps 1310 nm Single-mode	2,050.00	750.00	NA	NA	NA	SHN3S
- 150 Mbps 850 nm Multi-mode	2,050.00	810.00	NA	NA	NA	SHN1W
- 150 Mbps 1310 nm Single-mode	2,050.00	810.00	NA	NA	NA	SHN3W
- 300 Mbps 850 nm Multi-mode	2,050.00	870.00	NA	NA	NA	SHN1X
- 300 Mbps 1310 nm Single-mode	2,050.00	870.00	NA	NA	NA	SHN3X
- 450 Mbps 850 nm Multi-mode	2,050.00	930.00	NA	NA	NA	SHN1Y
- 450 Mbps 1310 nm Single-mode	2,050.00	930.00	NA	NA	NA	SHN3Y
- 600 Mbps 850 nm Multi-mode	2,050.00	1,020.00	NA	NA	NA	SHN1Z
- 600 Mbps 1310 nm Single-mode	2,050.00	1,020.00	NA	NA	NA	SHN3Z

**Note 1:** Basic Shared Ethernet LAN Access Link interfaces are available based on equipment capability and only at Customer Nodes.

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## B7. DIGITAL NETWORK SERVICE

### B7.7 Self-Healing Multi-Nodal Alternate Route Topology Ring (FiberRing) Service (Cont'd)

#### B7.7.4 Rates and Charges (Cont'd)

##### A. Self-healing Multi-nodal Alternate Route Topology Ring (FiberRing Service) (Cont'd)

##### 12. Basic Shared Ethernet LAN Access Link (Cont'd)

##### (b) Metro Ethernet Access Link Connection

	Nonrecurring Charge	Month to Month	24 to 48 Months	49 to 72 Months	73 to 96 Months	USOC
(1) Per Fractional 1000 Mbps Access Link - Metro Ethernet Customer Premises						
- 150 Mbps 850 nm Multi-mode	\$2,050.00	\$980.00	NA	NA	NA	SHNMA
- 150 Mbps 1310 nm Single-mode	2,050.00	980.00	NA	NA	NA	SHNSA
- 300 Mbps 850 nm Multi-mode	2,050.00	1,220.00	NA	NA	NA	SHNMB
- 300 Mbps 1310 nm Single-mode	2,050.00	1,220.00	NA	NA	NA	SHNSB
- 450 Mbps 850 nm Multi-mode	2,050.00	1,310.00	NA	NA	NA	SHNMC
- 450 Mbps 1310 nm Single-mode	2,050.00	1,310.00	NA	NA	NA	SHNSC
- 600 Mbps 850 nm Multi-mode	2,050.00	1,430.00	NA	NA	NA	SHNMD
- 600 Mbps 1310 nm Single-mode	2,050.00	1,430.00	NA	NA	NA	SHNSD
- 1000 Mbps 850 nm Multi-mode	2,050.00	1,570.00	NA	NA	NA	SHNME
- 1000 Mbps 1310 nm Single-mode	2,050.00	1,570.00	NA	NA	NA	SHNSE
(2) Per Fractional 1000 Mbps Access Link - Metro Ethernet Central Office						
- 150 Mbps	2,050.00	980.00	NA	NA	NA	SHNOA
- 300 Mbps	2,050.00	1,220.00	NA	NA	NA	SHNOB
- 450 Mbps	2,050.00	1,310.00	NA	NA	NA	SHNOC
- 600 Mbps	2,050.00	1,430.00	NA	NA	NA	SHNOD
- 1000 Mbps	2,050.00	1,570.00	NA	NA	NA	SHNOE
13. Virtual Packet Ring Rearrangement Charge						

	Monthly Rate	Nonrecurring Initial	Charge Subsequent	USOC
(a) Per service order associated with a rearrangement to increase or decrease a virtual packet ring subsequent to the initial setup of the virtual packet ring	-	-	\$500.00	SHNRP

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## B7. DIGITAL NETWORK SERVICE

### B7.8 Reserved For Future Use

### B7.9 DS1 Plus Service

#### B7.9.1 General

- A. DS1 Plus service is furnished for Private Line IntraLATA Communications by the Company.
- B. DS1 Plus service is a service for transmission of digital signals only and uses only digital transmission facilities.
- C. DS1 Plus service is a fiber-based high capacity network service providing a 1.544 Mbps transport link with high performance and reliability parameters. This service utilizes structurally diverse loop facilities designed to limit single points of failure between a customer's location and its normal serving wire center.
- D. DS1 Plus service is available to customer locations where existing loop facilities are fiber-based and utilize structurally diverse routes. For locations where loop facilities are not available to satisfy customer requests for DS1 Plus service, special construction charges will apply as set forth in Section B5. preceding.

#### B7.9.2 Regulations

- A. Description of Service
  - 1. DS1 Plus service utilizes a self-healing diverse fiber-based local channel (loop) transport link between a customer designated premises and the normal serving wire center.
  - 2. DS1 Plus service is furnished on a link (partial) basis for connection at the normal serving wire center to another DS1 Plus service, a Centrex service<sup>1</sup>, DS1 channel service, or FiberRing service. Connectivity between DS1 Plus service and these other services may be provided via a DS1 service Interoffice Channel between central offices.
  - 3. All appropriate rates, charges, rules and regulations specified in other tariff sections for connected services are in addition to those for DS1 Plus service specified in this tariff.
  - 4. Performance objectives for DS1 Plus service between the customer's location and the serving wire center are as follows:
    - a. Meet or exceed 99.98 percent Circuit Availability.
    - b. Meet or exceed 99.95 percent Error Free Seconds.
    - c. Meet or exceed .010 Severely Errored Seconds.

The objectives apply except when a customer's equipment and/or cabling is disconnected and/or inoperative, or when a DS1 service Interoffice Channel is used in conjunction with a DS1 Plus service Local Channel. Consult TR73525 for additional information concerning service performance objectives.

- 5. Performance guarantees for DS1 Plus service are as follows:
  - a. Service Installation
 

The Company will meet negotiated due date or credit an amount equal to the month-to-month payment plan nonrecurring charge according to the Service Installation Guarantee provisions described in B2.4.17 preceding.
  - b. Service Continuity
 

In the event of primary failure, service is guaranteed to switch to an alternate facility path in sixty seconds or less. Failure to meet this guarantee will result in a credit as described in E.3. following where the trouble is in the local loop facility on public right-of-way.

**Note 1:** Connection from DS1 Plus service to a Centrex type service may not be available from all Serving Wire Centers.

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## **B7. DIGITAL NETWORK SERVICE**

### **B7.9 DS1 Plus Service (Cont'd)**

#### **B7.9.2 Regulations (Cont'd)**

##### **B. Definitions**

###### **DS1 PLUS SERVICE LOCAL CHANNEL**

The DS1 Plus service Local Channel provides for the connection between a customer's designated premises to their serving wire center.

##### **C. Application of Rates**

1. Monthly rates and charges as specified in B7.9.3.A. following apply for each DS1 Plus service local channel.
2. Recurring and nonrecurring rates and charges apply for each DS1 Plus service.
3. A service performance credit as specified in E.3 following will apply.

##### **D. Connections**

1. Customer-Provided Terminal Equipment, Customer-Provided Derivation Equipment and Customer-Provided Communications Systems may be connected to DS1 Plus service when such connection is made in accordance with the provisions specified in 2. and 3. following.
2. Responsibility of the Company
  - a. The responsibility of the Company shall be limited to the furnishing and maintenance of DS1 Plus service to a network interface on the customer's premises.
  - b. The Company shall not be responsible for installation, operation, or maintenance of any terminal equipment or communications system provided by a customer. DS1 Plus service is not represented as adapted for the use of such equipment or system. Where such equipment or system is connected to Company facilities, the responsibility of the Company shall be limited to furnishing of facilities suitable for DS1 Plus service and to the maintenance and operation in a manner proper for such digital service. The Company shall not be responsible for:
    - the through transmission of signals generated by such equipment or system, or for the quality of, or defects in, such transmission, or
    - the reception of signals by such equipment or systems, or
    - damage to terminal equipment or communication system provided by a customer or authorized user due to testing.
  - c. The Company shall not be responsible to the customer if changes in any of the facilities, operations, or procedures of the Company utilized in the provision of DS1 Plus service render any facilities or equipment provided by the customer obsolete, or require modification or alteration of such equipment or system or otherwise affects its use or performance.
  - d. The Company undertakes to maintain and repair facilities, which it furnishes. The customer may not rearrange, disconnect, remove, or attempt to repair any equipment installed by the Company without prior written consent of the Company.

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## **B7. DIGITAL NETWORK SERVICE**

### **B7.9 DS1 Plus Service (Cont'd)**

#### **B7.9.2 Regulations (cont'd)**

##### **D. Connections (Cont'd)**

##### **3. Responsibility of the Customer**

- a. The customer is responsible for installing and testing premises equipment or facilities to insure that when they are connected to DS1 Plus service such equipment or facilities are operating properly.
- b. The operating characteristics of the customer premises equipment shall be such as to not interfere with any of the services offered by the Company. Such use is subject to the further provisions that the equipment provided by the customer does not: endanger the safety of Company employees or the public; damage, require change in or alteration of the equipment or other facilities of the Company; interfere with the proper functioning of such equipment or other facilities of the Company; impair the operation of the Company's facilities or otherwise injure the public in its use of the Company's services. Upon notice that the equipment provided by a customer is causing or is likely to cause such hazard or interference, the customer shall take such steps as shall be necessary to remove or prevent such hazard or interference.
- c. The customer's responsibility shall include cooperative testing with the Company as may be necessary. Where regeneration and/or equalization adjustments or changes may be required to compensate for rearrangements and/or changes in outside plant facilities, the customer will be responsible for all expenses incurred in changes to his premises equipment.
- d. When DS1 Plus service is connected at the serving wire center to another service which is provisioned with ANSI T1.403-1995 Extended Superframe Format (ESF) and/or Clear Channel Capability, the customer will be required to add the same format and/or line code standard to the DS1 Plus service to ensure compatibility. Rates and regulations associated with Clear Channel Capability are located in B7.1 of this tariff.
- e. The Company is authorized to provide DS1 Plus service for use in application testing subject to the regulations set forth in B2.1.16. Up to three each of DS1 Plus service local channels and interoffice channels may be utilized in a typical applications test configuration. The Company is authorized to deviate from this average in order to fully participate in an application test with a customer which cannot otherwise be performed to the customer's satisfaction.

##### **E. Payment Arrangements and Credit Allowances**

1. The minimum service period for DS1 Plus service is one month.
2. Suspension of service is not allowed.
3. Failure by the Company to meet the performance guarantee described in A.5.b. preceding will result in a credit of an amount equal to the monthly rate billed for the service. Credit for interruptions of sixty (60) seconds or more will be applied through normal administrative processes and the dollar amount will be reflected on the customer's bill. A customer must report the outage in order to receive credit. The credit will apply no more than once per calendar month, and shall not exceed the monthly rate for the service.
4. DS1 Plus service is eligible for credit of nonrecurring charges under "Service Installation Guarantee" found in B2.4.17 preceding.



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**B7. DIGITAL NETWORK SERVICE****B7.9 DS1 Plus Service****B7.9.3 Rates and Charges**

A. A DS1 Plus service Local Channel is furnished between a customer's premises and the Serving Wire Center.

1. DS1 Plus service Local Channel, each

		Nonrecurring Charge			USOC
		First	Add'l	Month	
	(a) 1.544 Mbps	660.00	540.00	154.00	P2JP1
B. DS1 service Interoffice Channels are furnished between Central Offices to connect DS1 Plus service Local Channels between two customer premises.					
1. Interoffice Channel, each channel 0-8 miles <sup>1</sup>					
	(a) Fixed Monthly Rate	-	-	-	1LNG1
	(b) Each Airline Mile, or fraction thereof	-	-	-	1LNGA
2. Interoffice Channel, each channel 9-25 miles <sup>1</sup>					
	(a) Fixed Monthly Rate	-	-	-	1LNG2
	(b) Each Airline Mile, or fraction thereof	-	-	-	1LNGB
3. Interoffice Channel, each channel over 25 miles <sup>1</sup>					
	(a) Fixed Monthly Rate	-	-	-	1LNG3
	(b) Each Airline Mile, or fraction thereof	-	-	-	1LNGC

C. Service Rearrangements

If the change involves changing a customer's DS1 service to DS1 Plus service, the change will be considered a disconnect of the existing service and full nonrecurring charges will apply for the DS1 Plus service, as appropriate<sup>2</sup>. Changes from DS1 service to DS1 Plus service will be considered an upgrade with regard to application of termination liability charges in accordance with the CSPP provisions provided in B2.4 preceding.

D. Moves

1. A move involves a change in the physical location of one of the following:
  - a. The point of interface at the customer premises.
  - b. The customer's premises.
2. The charges for the move are dependent on whether the move is to a new location within the same building or to a different building.
  - a. Moves Within the Same Building

When the move is to a new location within the same building, the charge for the move will be an amount equal to one-half the month-to-month nonrecurring charge. There will be no change in the minimum period requirements. If a move is made at the same time a service rearrangement is made, the total charge will never exceed a full nonrecurring charge for the month-to-month service.

- b. To a Different Building

When the move is to a new location in Company territory within the same state, the charge for the move is equal to the sum of all nonrecurring charges applicable to a new DS1 Plus service month-to-month service arrangement at the new location.

When the move is to a new location in Company territory in a different state, the move will be treated as a discontinuance and start of service. The customer will be responsible for satisfying all outstanding minimum period charges for the discontinued service. All applicable nonrecurring charges at the new location will apply.

**Note 1:** Refer to B7.1.3.B for applicable nonrecurring charges and recurring rates.

**Note 2:** Nonrecurring charges do not apply to DS1 Plus service Local Channels provided under a contract plan.

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## B7. DIGITAL NETWORK SERVICE

### B7.10 DS1 Light Service

#### B7.10.1 General

- A. DS1 Light service is furnished for Private Line IntraLATA Communications by the Company.
- B. DS1 Light service is a service for transmission of digital signals only and uses only digital transmission facilities.
- C. DS1 Light service is a fiber-based high capacity network service providing a 1.544 Mbps (DS1) transport link.
- D. DS1 Light service provides for the simultaneous two-way transmission of serial, Bipolar Return-to-Zero (BPRZ) isochronous digital signals, except where intentional bipolar violations are introduced by Bipolar with 8 Zero Substitution (B8ZS) format, at DS1 speeds of 1.544 Mbps, and is available to customer locations where existing loop facilities are fiber-based. The rates specified for DS1 Light service in B7.10.3 following, contemplate the provision of a digital quality facility via existing exchange facilities compatible with this service. When DS1 Light service is requested at locations where loop facilities are not available to satisfy customer requests for DS1 Light service, special construction charges will apply as set forth in Section B5. preceding.
- E. Unless specified following, the regulations for DS1 Light service specified herein apply in addition to the regulations set forth in Section B2 preceding.

#### B7.10.2 Regulations

##### A. Description of Service

1. DS1 Light service utilizes a fiber-based local channel (loop) transport link between a customer designated premises and its normal serving wire center.
2. DS1 Light service is furnished on a link (partial channel) basis for connection at the normal serving wire center to Centrex Type Services<sup>1</sup>, DS1 channel service or FiberRing service. Connectivity between DS1 Light service and these other services may be provided via a DS1 service Interoffice Channel between central offices. Except for DS1 service and DS1 Plus service, those services connectable to a DS1 service Interoffice Channel or a DS1 Light service Local Channel may be utilized for completion of a customer's point-to-point channel service.
3. All appropriate rates, charges, rules and regulations specified in other tariff sections for connected services are in addition to those for DS1 Light service specified in this tariff.
4. Performance guarantees for DS1 Light service are as follows:
  - a. Service Installation
 

The Company will meet negotiated due date or credit an amount equal to the month-to-month payment plan nonrecurring charge according to the Service Installation Guarantee provisions described in B2.4.17 preceding.
  - b. Service Continuity
 

Service outages in the local loop facility, will result in a credit as described in E.3. following where the trouble is in the local loop facility on public right-of-way.

**Note 1:** Connection from DS1 Light service to Centrex Type Services may not be available from all serving wire centers.

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## **B7. DIGITAL NETWORK SERVICE**

### **B7.10 DS1 Light Service (Cont'd)**

#### **B7.10.2 Regulations (Cont'd)**

##### **B. Definitions**

###### **DS1 Light Service Local Channel**

The DS1 Light service Local Channel denotes a path for DS1 Light service furnished between the customer's premises and its normal serving wire center.

###### **DS1**

This denotes a channel service in terms of its digitally encoded data bit rate in accordance with the North American hierarchy of digital signal levels. It has a 1.544 Mbps data transmission rate, and provides for the two-way simultaneous transmission of isochronous timed, Bipolar Return-to-Zero (BPRZ) bit stream format except where intentional bipolar violations are introduced by Bipolar with 8 Zero Substitution (B8ZS) format. Unframed signal formats are not permitted or compatible with Company equipment.

##### **C. Application of Rates**

1. DS1 Light service Local Channels will be charged for at rates based on the first half mile and each additional half mile for the airline distance measured between the customer's premises and its normal Serving Wire Center.
2. Recurring and nonrecurring rates and charges apply for each DS1 Light service.
3. When a customer requests B8ZS format be provided on a DS1 Light service Local Channel, regulations and rates and charges appropriate for Clear Channel Capability (CCC) as specified for DS1 service, located in B7.1 preceding, will apply.

##### **D. Connections**

1. Customer-Provided Terminal Equipment, Customer-Provided Derivation Equipment and Customer-Provided Communications Systems may be connected to DS1 Light service when such connection is made in accordance with the provisions specified in 2. and 3. following.
2. Responsibility of the Company
  - a. The responsibility of the Company shall be limited to the furnishing and maintenance of DS1 Light service to a network interface on the customer's premises.

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## **B7. DIGITAL NETWORK SERVICE**

### **B7.10 DS1 Light Service (Cont'd)**

#### **B7.10.2 Regulations (cont'd)**

##### **D. Connections (Cont'd)**

###### **2. (Cont'd)**

- b. The Company shall not be responsible for installation, operation, or maintenance of any terminal equipment or communications system provided by a customer. DS1 Light service is not represented as adapted for the use of such equipment or system. Where such equipment or system is connected to Company facilities, the responsibility of the Company shall be limited to furnishing of facilities suitable for DS1 Light service and to the maintenance and operation in a manner proper for such digital service. The Company shall not be responsible for:
  - the through transmission of signals generated by such equipment or system, or for the quality of, or defects in, such transmission, or
  - the reception of signals by such equipment or systems, or
  - damage to terminal equipment or communication system provided by a customer or authorized user due to testing.
- c. The Company shall not be responsible to the customer if changes in any of the facilities, operations, or procedures of the Company utilized in the provision of DS1 Light service render any facilities or equipment provided by the customer obsolete, or require modification or alteration of such equipment or system or otherwise affects its use or performance.
- d. The Company undertakes to maintain and repair facilities which it furnishes. The customer may not rearrange, disconnect, remove, or attempt to repair any equipment installed by the Company without prior written consent of the Company.

###### **3. Responsibility of the Customer**

- a. The customer is responsible for installing and testing premises equipment or facilities to insure that when they are connected to DS1 Light service such equipment or facilities are operating properly.
- b. The operating characteristics of the customer premises equipment shall be such as to not interfere with any of the services offered by the Company. Such use is subject to the further provisions that the equipment provided by the customer does not: endanger the safety of Company employees or the public; damage, require change in or alteration of the equipment or other facilities of the Company; interfere with the proper functioning of such equipment or other facilities of the Company; impair the operation of the Company's facilities or otherwise injure the public in its use of the Company's services. Upon notice that the equipment provided by a customer is causing or is likely to cause such hazard or interference, the customer shall take such steps as shall be necessary to remove or prevent such hazard or interference.
- c. The customer's responsibility shall include cooperative testing with the Company as may be necessary. Where regeneration and/or equalization adjustments or changes may be required to compensate for rearrangements and/or changes in outside plant facilities, the customer will be responsible for all expenses incurred in changes to his premises equipment.
- d. When DS1 Light service is connected at the serving wire center to another service which is provisioned with ANSI T1.403-1995 Extended Superframe Format (ESF) and/or Clear Channel Capability, the customer will be required to add the same format and/or line code standard to the DS1 Light service to ensure compatibility. Rates and regulations associated with Clear Channel Capability are located in B7.1 of this tariff.
- e. It will be the responsibility of the customer to make a power supply available when required by the Company for its use, using Company-provided, location specific, specifications for termination, type and location.

##### **E. Payment Arrangements and Credit Allowances**

- 1. The minimum initial service period for DS1 Light service is 24 months. Month-to-Month rates may be specified upon completion of the initial 24 month service period.
- 2. Suspension of service is not allowed.

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EFFECTIVE: October 8, 2010

## **B7. DIGITAL NETWORK SERVICE**

### **B7.10 DS1 Light Service (Cont'd)**

#### **B7.10.2 Regulations (Cont'd)**

##### **E. Payment Arrangements and Credit Allowances (Cont'd)**

3. A service interruption of 30 minutes or more, attributable to the DS1 Light service Local Channel portion of the customer's end-to-end service, will result in the credit of an amount as specified in a. through e. following. These credits are applicable to the Company's DS1 Light service Local Channel portion of the customer's end-to-end service, where the trouble is in the Company's local channel facility on public right-of-way. Credits will be applied through normal administrative processes and the dollar amount will be reflected on the customer's bill. A customer must report the outage in order to receive service outage credit, and the total credit received in any month shall not exceed the monthly rate for the service.
  - a. For service interruptions of from 30 to 150 minutes duration, the customer will receive a credit of an amount equal to 25 percent of the Local Channel monthly recurring rate.
  - b. For service interruptions of from 151 to 210 minutes duration, the customer will receive a credit of an amount equal to 50 percent of the Local Channel monthly recurring rate.
  - c. For service interruptions greater than 210 minutes duration, the customer will receive a credit of an amount equal to 100 percent of the Local Channel monthly recurring rate.
  - d. Service outages of less than 30 minutes duration will not receive credit.
  - e. Service outage credits for services into which DS1 Light service Local Channels are terminated will be as is appropriate for those other services.
4. DS1 Light service is eligible for credit of nonrecurring charges under provisions of the "Service Installation Guarantee" found in B2.4.17 preceding.

##### **F. Service Changes**

If the change involves changing a customer's DS1 service Local Channel to a DS1 Light service Local Channel, the change will be considered a disconnect of the existing service and full nonrecurring charges will apply for the DS1 Light service, as appropriate. Changes from DS1 service to DS1 Light service will be considered an upgrade with regard to application of termination liability charges in accordance with the CSPP provisions provided in B2.4 preceding.

#### **B7.10.3 Rates and Charges**

##### **A. Recurring Rates**

1. A DS1 Light service Local Channel is furnished between a customer's premises and its normal Serving Wire Center (SWC). Rates are based on the airline distance between the customer's premises and its normal SWC.

##### **B. Nonrecurring Charges**

1. Service Establishment Charges are applicable, for each DS1 Light service Local Channel ordered, for receiving and recording information and/or taking action in connection with a customer's request, and processing the necessary data. These charges include engineering design, common centralized testing and coordination.
2. Service Change Charges are applicable for receiving and recording information and/or taking action in connection with a customer's Inside Move or Transfer of Service responsibility request, for processing the necessary data on an existing DS1 Light service Local Channel. A Service Change Charge is applicable for each DS1 Light service Local Channel associated with the customer request (in lieu of a Service Establishment Charge).
3. A Premises Visit Charge is applicable, per DS1 Light service Local Channel, for termination of the channel at a customer's premises or for Inside Moves. Only one Premises Visit Charge applies when more than one DS1 Light service Local Channel is terminated or moved at the same premises, during the same visit.
4. Connection charges are applicable for the connection and testing of DS1 Light service Local Channels. The applicable charges are those nonrecurring charges specified in C.1. following.

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EFFECTIVE: October 8, 2010

## B7. DIGITAL NETWORK SERVICE

### B7.10 DS1 Light Service (Cont'd)

#### B7.10.3 Rates and Charges (Cont'd)

##### B. Nonrecurring Charges (Cont'd)

###### 5. Moves

###### a. A move involves a change in the physical location of one of the following:

- (1) the point of interface at the customer premises, or
- (2) the customer's premises.

###### b. The charges for the move are dependent on whether the move is to a new location within the same building or to a different building.

###### (1) Moves Within the Same Building

When the move is to a new location within the same building, the charge for the move will be an amount equal to one-half the nonrecurring charge. There will be no change in the minimum period requirements. If a move is made at the same time a service rearrangement is made, the total charge will never exceed a full nonrecurring charge for the month-to-month service.

###### (2) To a Different Building

When the move is to a new location in Company territory within the same state, the charge for the move is equal to the sum of all nonrecurring charges applicable to a new DS1 Light service month-to-month service arrangement at the new location.

When the move is to a new location in Company territory in a different state, the move will be treated as a discontinuance and start of service. The customer will be responsible for satisfying all outstanding minimum period charges for the discontinued service. All applicable nonrecurring charges at the new location will apply.

##### C. Rate and Charge Amounts

###### 1. DS1 Light Service, Local Channel

	Nonrecurring Charge	Month to Month	USOC
(a) First ½ Mile	\$300.00	\$180.00	1LDPL
(b) Each additional ½ Mile, or fraction thereof	-	30.00	1LDPM
2. Service Establishment Charge			
(a) Each	575.00	-	MLLSE
3. Service Change Charge, Inside Move			
(a) Each	425.00	-	MLLIM
4. Service Change Charge, Transfer of Responsibility			
(a) Each	50.00	-	MLLTR
5. Premises Visit Charge			
(a) Each	35.00	-	MLLPV

### B7.11 Cross Connection Service

#### B7.11.1 General

- A. Physical Access Cross Connects provide a one to one dedicated transmission path between the ordering customer's tariffed service offerings or transport equipment located in the Company Central Office and the ordering customer's own physical collocation arrangement or another telecommunications carrier's (collocator's) physical collocation arrangement in the same Company Central Office.

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## B7. DIGITAL NETWORK SERVICE

### B7.11 Cross Connection Service (Cont'd)

#### B7.11.2 Regulations

- A. Standards for performance monitoring of services which interconnect to the collocation arrangement will be driven by the particular service type and service specific requirements. The Company's obligation for monitoring ends at the demarcation point.
- B. Physical Access Cross Connects are flat rate, non-distance sensitive charges and will be applied on a per cross connect ordered basis.
- C. Physical Access Cross Connects will be ordered on the same ASR as the service being cross-connected. All ASRs must be complete and accurate before the Company will initiate the provisioning process.
- D. Nonrecurring charges are applicable for Physical Access Cross Connect Service.
- E. Cross Connects are available at the DS0 2-wire, DS0 4-wire, DS1, DS3, 2-Fiber, and 4-Fiber levels.

#### B7.11.3 Rates and Charges

	Nonrecurring Charge	Month to Month	USOC
- 2-Wire, per cross connect	\$ 54.18	\$ 9.63	XXXX
- 4-Wire, per cross connect	\$ 54.18	\$ 16.51	XXXX
- DS1, per cross connect	\$ 61.05	\$ 50.44	XXXX
- DS3, per cross connect	\$102.63	\$555.02	XXXX

### B7.12 Multiplexing Service

#### B7.12.1 General

- A. The multiplexing function is to channelize analog or digital facilities to individual services requiring a lower capacity or bandwidth.
- B. When Multiplexing is performed at a Customer Designated Premises Location, a Local Channel and the Multiplexing charge will be applied.

#### B7.12.2 Regulations

- A. DS3 to DS1  
An arrangement that converts a 44.736 Mbps channel to 28 DS1 channels using digital time division multiplexing.
- B. DS1 to Voice  
An arrangement that converts a 1.544 Mbps channel to 24 channels for use with Voice Grade Services. A channel(s) of this DS1 to the Hub can also be used for a Digital Data Service.
- C. DS1 to DS0  
An arrangement that converts a 1.544 Mbps channel to 23 64.0 Kbps channels utilizing digital time division multiplexing.
- D. DS0 to Subrates  
An arrangement that converts a 64.0 Kbps channel to subspeeds of up to twenty 2.4 Kbps, ten 4.8 Kbps, or five 9.6 Kbps channels using digital time division multiplexing.

#### B7.12.3 Rates and Charges

	Month to Month	USOC
Multiplexing, per arrangement		
- DS3 to DS1	\$131.02	XXXX
- DS1 to Voice	\$ 48.39	XXXX
- DS1 to DSO	\$ 40.73	XXXX
- DS0 to Subrates		
- Up to 20 2.4 kbps services	\$63.01	XXXX
- Up to 10 4.8 kbps services	\$38.67	XXXX
- Up to 5 9.6 kbps services	\$33.79	XXXX

## **B8. CUSTOM NETWORK SERVICE**

### **CONTENTS**

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## **B8. CUSTOM NETWORK SERVICE**

### **B8.1 General**

Custom Network Service is furnished to provide custom-designed IntraLATA Private Line Service networks. Each network design is tariffed herein as a Custom Network Service Arrangement, and each is further identified with a roman numeral designation (e.g., Custom Network Service Arrangement I).

A Custom Network Service Arrangement is only available under a contractual payment period according to the regulations, terms and conditions specified herein.

The Private Line Services provided in a Custom Network Service Arrangement are subject to the general regulations for service stated elsewhere in this Tariff, except where specified otherwise in a Custom Network Service Arrangement.

In order to subscribe to a Custom Network Service Arrangement, the customer's network must meet the minimum requirements stated within that specific Custom Network Service Arrangement with regard to network design and size. The customer must also agree to the terms and conditions stated therein.

### **B8.2 Custom Network Service Arrangement I**

#### **B8.2.1 General**

Custom Network Service Arrangement I is provided to furnish a large data network composed of DDS service (may be referred to herein as digital data service), various analog voice grade services specified herein and DS1 service.

This arrangement will provide the regulations, and rates and charges to allow the provisioning of a very large data network for the specified payment period.

Except where stated otherwise herein, the services provided in Custom Network Service Arrangement I will be subject to the regulations in this Tariff which apply to DDS service from Section B7., analog voice grade services from Section B3., and DS1 service from Section B7. Custom Network Service Arrangement I may contain only certain rate elements from these standard tariffs; the other rate elements to complete the provisioning of service may need to be selected from these standard tariffs to apply in conjunction with the components of service provided within Custom Network Service Arrangement I.

The following non-appropriations clause shall apply when Custom Network Service Arrangement I is elected by the State Government of South Carolina (referred to herein as the "State"):

If the legislature fails to appropriate or authorize the expenditure of sufficient funds to provide the continuation of this contract or if a lawful order issued in or for any fiscal year during the term of the contract reduces the funds appropriated or authorized in such amounts as to preclude making the payments set out therein, the contract shall terminate on the date said funds are no longer available without any termination charges or other liability incurring to the State. The State shall provide the Company with notice not less than thirty (30) days prior to the date of cancellation if such time is available. Otherwise, prompt notice will suffice. In the event of occurrence of the circumstances described immediately above, the Company shall not prohibit or otherwise limit the State's right to pursue and contract for alternate solutions and remedies as deemed necessary by the State for the conduct of its affairs. All provisions stated herein shall apply to any amendment or the execution of any option to extend the contract.

#### **B8.2.2 Regulations**

- A. Custom Network Service Arrangement I is provided under a five (5) year payment period agreement and shall be administered in accordance with the regulations contained in the Channel Services Payment Plan, B2.4.9.A., except as follows:
  1. Custom Network Service Arrangement I is provided under a five year payment period agreement with a mandatory minimum service period of two years required. After completion of the second year in this payment period agreement, the customer may elect to continue this payment period agreement in one year extensions for up to another three year period (not to exceed a total payment period of five years), or the customer may elect one of the service options stated in 2. following.

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## B8. CUSTOM NETWORK SERVICE

### B8.2 Custom Network Service Arrangement I (Cont'd)

#### B8.2.2 Regulations (Cont'd)

##### A. (Cont'd)

2. The customer has the following options for service following the expiration of the Custom Network Service Arrangement I payment period agreement:
  - a. The customer may elect to enter into a new Custom Network Service Arrangement I payment agreement at the rates in effect herein for new customers at the time the contract service expires.
  - b. The customer may elect that the network service revert back to the generally available service rates in Sections B3. and B7. that are in effect at the time the contract service expires.
  - c. The customer may elect that all Custom Network Service be disconnected at the expiration of the contract period. No Termination Liability Charges shall apply.
  - d. If customers do not elect a., b., or c., preceding or do not notify the Company of their intentions prior to the time the contract service expires, service shall be continued at the monthly rates currently in effect for the month-to-month option for these services from Sections B3. and B7. until notified otherwise by the customer.
3. Additional services and/or terms and conditions added to this Custom Network Service Arrangement I tariff during a customer's payment period agreement may be elected by that customer for the remainder of their original payment period. Rate adjustments may apply for existing Custom Network Service Arrangement I customer billing on services added to this tariff.
4. The minimum size for a Custom Network Service Arrangement I shall be 600 local channels located in the Company serving area in South Carolina. The customer's data network may be less than the 600 local channel minimum size upon electing to subscribe to Custom Network Service Arrangement I, however, the network size must grow to the 600 local channel minimum by the first anniversary date (twelve months) and 700 local channels by the second anniversary date (twenty-four months) of the signing of the payment agreement for Custom Network Service Arrangement I. The size of the data network shall remain a minimum of 700 local channels for the remainder of the payment period agreement.

The term "local channels" as used herein Custom Network Service Arrangement I shall be defined to specifically include any combination of local channels of DDS service, DS1 service, and/or analog voice grade service (specifically, types 2230, 2260, 2432, 2434, 2435, and/or 2463) which are provided within Company serving area in South Carolina. This definition of local channels may be expanded at the customer's option to include services provided under Custom Network Service Arrangement I which are upgraded to other Company provided services and technologies which 1) are specified in Company tariffs as acceptable upgrades or changes in service for which termination liability charges do not apply and 2) when those services are elected for a period of time under a contract agreement term which is equal to or greater than the time remaining in the customer's Customer Network Service Arrangement I's payment period agreement. The count of the customer's local channels per this definition shall be used in the annual review to determine the size of the customer's data network as set forth herein. All local channels considered part of a customer's data network shall be subject to the terms set forth in c. following.

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## B8. CUSTOM NETWORK SERVICE

### B8.2 Custom Network Service Arrangement I (Cont'd)

#### B8.2.2 Regulations (Cont'd)

A. (Cont'd)

4. (Con't)

The data network provided under Custom Network Service Arrangement I shall be reviewed annually on the anniversary date of the signing of the payment agreement for Custom Network Service Arrangement I. The purpose of each annual review will be to determine if the terms of Custom Network Service Arrangement I are being met and the data network minimum size has been satisfied.

- a. If the count of local channels is the stated minimum or above on the anniversary date, the network minimum has been met.
- b. If the count of local channels is less than the stated minimum on the anniversary date, the network minimum has not been satisfied and the customer may no longer subscribe to Custom Network Service Arrangement I. The customer's network shall revert to the rates and regulations for service available in Sections B3. and B7. of this Tariff. This shall not be considered as a disconnect of the customer's service and a Termination Liability Charge as described in c. following shall not apply.
- c. The disconnect or moves of Custom Network Service Arrangement I services (individual local and/or interoffice channels, node channel terminations and/or associated optional features, including any associated Multipoint Bridging or Subrate Reconfiguration Capability purchased under a Term Payment Plan) inside the Company serving area in South Carolina during the Custom Network Service Arrangement I payment period shall be considered as partial disconnects of the network and shall not incur a Termination Liability Charge. A Termination Liability Charge shall apply only for the complete disconnect of all service within Custom Network Service Arrangement I (except as specified in d. following) and shall be calculated as follows:
  - The Termination Liability Charge shall be equal to the appropriate monthly rates as specified herein Custom Network Service Arrangement I times the number of months remaining in the payment period, times the quantities of service in place at the time of disconnect. A minimum quantity of 600 local channels shall be used in this calculation if the disconnect occurs prior to the end of the second year of this agreement and the actual number of local channels at the time of disconnect is less than this stated network minimum; if the disconnect occurs after the second year of this agreement, a minimum of 700 local channels shall be used in this calculation if the actual number of local channels at the time of disconnect is less than this network minimum.
- d. A Termination Liability Charge as specified in c. preceding shall apply for the complete disconnect of Custom Network Service Arrangement I unless both of the following conditions are met: 1) the disconnect occurs after Custom Network Service Arrangement I has been in-place for a minimum of twenty-four months and 2) if the customer elects another Custom Network Service Arrangement for a period of time equal to or greater than the amount of time remaining in his Custom Network Service Arrangement I payment period. If these conditions are met, no Termination Liability Charge shall apply.

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## B8. CUSTOM NETWORK SERVICE

### B8.2 Custom Network Service Arrangement I (Cont'd)

#### B8.2.2 Regulations (Cont'd)

##### A. (Cont'd)

5. Nonrecurring charges specified in B8.2.3 do not apply for the conversion of service in-place at the time the customer establishes Custom Network Service Arrangement I. Termination Liability Charges shall not apply for the conversion of in-place service that was being provided under a contractual payment period; however, no service credit will be given for the former contractual period. Requests for new service to be added to the customer's network will be subject to the nonrecurring charges specified in B8.2.3, except as follows:
  - Nonrecurring charges specified in B8.2.3 shall not apply for new digital data (DDS) service ordered during the first four months following the initial establishment of each customer's Custom Network Service Arrangement I; specifically, nonrecurring charges will not apply when the service order application date falls within this four-month period and service is to be placed within the standard installation interval.

#### B8.2.3 Rates and Charges

##### A. DDS service<sup>1</sup>

1. Digital Local Channel, each

		Monthly	Nonrecurring		
		Rate	First	Additional	USOC
(a)	2.4 Kbps	\$45.00	\$340.00	\$105.00	1RSD2
(b)	4.8 Kbps	45.00	340.00	105.00	1RSD4
(c)	9.6 Kbps	45.00	340.00	105.00	1RSD9
(d)	19.2 Kbps	45.00	340.00	105.00	1RSD3
(e)	56.0 Kbps	56.00	340.00	105.00	1RSD5
(f)	64.0 Kbps	56.00	340.00	105.00	1RSD6
2.	Node Channel Termination, each				
(a)	2.4 Kbps	10.00	37.00	32.00	2UN24
(b)	4.8 Kbps	10.00	37.00	32.00	2UN48
(c)	9.6 Kbps	10.00	37.00	32.00	2UN96
(d)	19.2 Kbps	10.00	37.00	32.00	2UN19
(e)	56.0 Kbps	24.00	37.00	32.00	2UN56
(f)	64.0 Kbps	24.00	37.00	32.00	2UN64

3. Digital Interoffice Channel

##### a. Interoffice Channel

- (1) Fixed rates applicable

		Monthly Rate	Nonrecurring Charge	USOC
(a)	2.4, 4.8, 9.6 and 19.2 Kbps	\$18.00	\$93.00	3LBSF
(b)	56.0 and 64.0 Kbps	31.00	93.00	3LBSF

**Note 1:** The monthly rates shown are for the five-year payment period.

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## B8. CUSTOM NETWORK SERVICE

### B8.2 Custom Network Service Arrangement I (Cont'd)

#### B8.2.3 Rates and Charges (Cont'd)

##### A. DDS service<sup>1</sup> (Cont'd)

##### 3. Digital Interoffice Channel (Cont'd)

##### a. Interoffice Channel (Cont'd)

(2) Each mile or fraction thereof

	Monthly Rate	Nonrecurring Charge	USOC
(a) 2.4, 4.8, 9.6 and 19.2 Kbps	\$1.55	-	3LBSM
(b) 56.0 and 64.0 Kbps	3.10	-	3LBSM
4. MultiPoint Service/Bridging (Optional Feature) Per local or interoffice channel bridged <sup>2,3</sup>			
(a) 2.4, 4.8, 9.6 and 19.2 Kbps	10.00	\$ 28.00	6BN
(b) 56.0 Kbps	10.00	28.00	6BN
5. Secondary Channel Capabilities, per local channel			
(a) Each <sup>2,3,4</sup>	10.00	225.00	SFS

##### B. Voice Grade Analog Service<sup>1</sup>

##### 1. Voice and Data Local Channels

Per point of termination

	Monthly Rate	Nonrecurring Charge		USOC
		First	Additional	
(a) Type 2230	\$15.85	\$345.00	\$115.00	P2JUX
(b) Type 2260	25.50	415.00	160.00	P2JKX
(c) Type 2432	42.75	390.00	145.00	P2JQX
(d) Type 2434	8.00	165.00	83.00	P2JGX
(e) Type 2435	38.25	370.00	130.00	P2JWX
(f) Type 2463	42.50	415.00	160.00	P2JMX
2. Voice Grade Interoffice Channels - Series 2000				
	Fixed Monthly Rate	Monthly Charge Per Mile	Nonrecurring Charge	USOC
(a) 1 thru 8 Miles	\$40.00	\$1.65	\$105.00	3LBBS
(b) 9 thru 25 Miles	40.00	1.65	105.00	3LBBS
(c) Over 25 Miles	40.00	1.65	105.00	3LBBS

**Note 1:** The monthly rates shown are for the five-year payment period.

**Note 2:** This option may not be available in all service locations.

**Note 3:** This option is not available with 64.0 Kbps.

**Note 4:** Nonrecurring charge is applicable only if Secondary Channel service is being added subsequent to the installation of basic service.

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## B8. CUSTOM NETWORK SERVICE

### B8.2 Custom Network Service Arrangement I (Cont'd)

#### B8.2.3 Rates and Charges (Cont'd)

##### C. DS1 service<sup>1</sup>

##### 1. Interoffice Channel<sup>2</sup>, each channel 1-8 Miles

	Monthly Rate	Nonrecurring Charge	USOC
(a) Fixed Monthly Rate	\$65.00	\$125.00	1LN01
(b) Each Airline Mile, or fraction thereof	14.00	-	1LN0A

##### 2. Interoffice Channel<sup>2</sup>, each channel 9-25 Miles

	Monthly Rate	Nonrecurring Charge	USOC
(a) Fixed Monthly Rate	\$65.00	\$125.00	1LN02
(b) Each Airline Mile, or fraction thereof	14.00	-	1LN0B

##### 3. Interoffice Channel<sup>2</sup>, each channel over 25 Miles

	Monthly Rate	Nonrecurring Charge	USOC
(a) Fixed Monthly Rate	\$65.00	\$125.00	1LN03
(b) Each Airline Mile, or fraction thereof	14.00	-	1LN0C

**Note 1:** The monthly rates shown are for the five-year payment period

**Note 2:** Service Establishment charges from Section B7.1 apply; charges from Section B7.1 may also apply for other DS1 service rate elements.

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## **B9. OPTICAL NETWORK SERVICE**

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## B9. OPTICAL NETWORK SERVICE

### B9.1 Wavelength Service

#### B9.1.1 General

- A. Wavelength service provides high volume optical transport capabilities utilizing point-to-point and dedicated ring topologies. Wavelength service is available in two (2) different service arrangements, i.e., a Basic Arrangement and a Dedicated Ring Arrangement. These service arrangements provide various transparent transport and bit rate specific wavelength channel service capabilities to support customer needs for broadband connectivity.
- B. The Wavelength service Basic Arrangement provides dedicated bandwidth over shared facilities in point-to-point service configurations. The Wavelength service Basic Arrangement provides the capability for customers to subscribe to individual transparent transport and bit rate specific Wavelength Channels, as identified in D. following, between two customer premises or between a customer premises and the primary serving Central Office of the customer premises. The Wavelength service Basic Arrangement between two customer premises locations will be routed through a Telephone Company Central Office for purposes of alarming and monitoring the service.

Wavelength service Basic Arrangement is available with Unprotected Wavelength Channels. Wavelength service Basic Arrangement Unprotected Wavelength Channels may be configured in a Client Protection arrangement or with Channel Network Protection. With Client Protection, two (2) Unprotected Wavelength Channels interconnect with a customer's equipment to provide a level of protection for a customer's service. Customer provided equipment shall provide required switching between wavelength channels in a Client Protection arrangement. With Channel Network Protection, two (2) Unprotected Basic Arrangement Wavelength Channels are utilized in conjunction with Telephone Company equipment at a customer's premises to provide a level of survivability for a customer's service in case of a failure associated with one of the two (2) Unprotected Wavelength Channels.

- C. The Wavelength service Dedicated Ring Arrangement provides dedicated bandwidth over dedicated facilities in a ring topology service configuration. A Wavelength service Dedicated Ring Arrangement provides the capability for customers to activate wavelength channels between Service Node locations on the ring. A Service Node location is a location where equipment is located that provides customers add/drop connectivity to a Wavelength service Dedicated Ring Arrangement via Primary System and Expansion System service components. These service components are considered ring level and contain the fiber transport associated with the service. A minimum of two (2) Service Node locations is required for a Wavelength service Dedicated Ring Arrangement. This minimum configuration may be Service Nodes at either a customer-designated premises and a telephone company serving wire center, at two (2) telephone company serving wire centers or at two (2) customer-designated premises. Additional Service Node locations at customer-designated premises and/or at telephone company serving wire centers may be established, up to the limitation of the service. Wavelength service Dedicated Ring Arrangement Wavelength Channels are available for the activation of wavelengths between Service Node locations.

For Wavelength Service Dedicated Ring Arrangements with Service Node locations only at customer designated premises, a Monitoring Node may be required at a Telephone Company Central Office in order to assure proper operation of a customer's service and provide alarming/monitoring capability. A Monitoring Node does not contain the capability to add or drop services and will be provided at no additional charge to the customer. A Monitoring Node will appear on a customer's records as a non-rated USOC, as follows:

Monitoring Node, non-rated

USOC

**W32MN**

Wavelength service Dedicated Ring Arrangements are available with Single Bay or Dual Bay service capabilities. The Single Bay arrangement allows the customer to activate up to 16 wavelengths between adjacent Service Node locations and a Dual Bay arrangement allow the customer to activate up to 32 wavelengths between adjacent Service Node locations. Both service configurations have Primary System and Expansion System service components that apply on a per physical bay basis. Single Bay service components are a Primary System - Single Bay and Expansion System - Single Bay. Dual Bay service components are a Primary System - Dual Bay and Expansion System - Dual Bay. Customers with a Single Bay arrangement whose wavelength requirement exceeds the capacity of his existing arrangement may add an additional separate Single Bay service arrangement or upgrade to a Dual Bay arrangement. For customer upgrades involving conversion of a Single Bay to a Dual Bay service arrangement, the conversion will result in a service outage of the customers Single Bay arrangement (outage credits will not apply for this conversion).

Wavelength service Dedicated Ring Arrangements are available with Unprotected or with Optical Network Protected Wavelength Channels. Unprotected Wavelength service Wavelength Channels for Dedicated Ring Arrangements may be configured with Client Protection. With Client Protection, two (2) Unprotected Wavelength Channels interconnect with a customer's equipment to provide a level of protection for a customer's service. Customer provided equipment shall provide required switching between wavelength channels in a Client Protection arrangement. With Optical Network Protected Wavelength Channels, two (2) wavelength channels are utilized in conjunction with Telephone Company equipment to provide a level of survivability for a customer's service in case of a failure associated with one of



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## B9. OPTICAL NETWORK SERVICE

### B9.1 Wavelength Service (Cont'd)

#### B9.1.1 General (Cont'd)

##### C. (Cont'd)

the two wavelengths. The protection option selected by customers for wavelength channels will determine the total number of Wavelength Channels available on Primary Systems and/or Expansion Systems.

A Wavelength service Dedicated Ring Arrangement provides the capability for customers to transport transparent and bit rate specific Wavelength Channels, as identified in D. following.

A Wavelength service Dedicated Ring Arrangement requires amplification when the distance between Service Node locations and/or characteristic of the fiber optic cable results in a transmission level that is not suitable for the service's proper operation. When amplification is required, it will be provided via an Optical Signal Amplification Node. An Optical Signal Amplification Node does not provide drop or add capabilities for Wavelength Channels and does not count toward the service's minimum requirement of two Service Nodes. Detailed engineering design will determine the need for amplification and its placement in the customer's network. Such amplification will be shown on the service inquiry and billed accordingly.

The fiber facilities utilized to provide a Wavelength service Dedicated Ring Arrangement will have route diversity, where facilities are available, based on the routing of existing facilities serving a customer's location(s). Special Construction charges shall apply for customer request associated with additional diversity of fiber facilities.

##### D. The various Wavelength Channels that are available via a Wavelength service Basic Arrangement or Dedicated Ring Arrangement are as follows:

<u>Wavelength Channels</u>	<u>Basic Arrangement</u>	<u>Dedicated Ring Arrangement</u>
1.25 Gbps Transparent Transport	X	X
2.5 Gbps Transparent Transport	X	X
10 Gbps WAN Wavelength Transport	X	X
10 Gbps LAN Wavelength Transport		X
OC-3 Wavelength Transport	X	X
OC-12 Wavelength Transport	X	X
OC-48 Wavelength Transport	X	X
OC-192 Wavelength Transport	X	X
Gigabit Ethernet at 1 Gbps Wavelength Transport	X <sup>1</sup>	X
Fast Ethernet at 100Mbps Wavelength Transport		X
Fiber Channel 100 Wavelength Transport		X
Fiber Channel 200 Wavelength Transport		X
Fiber Connection Wavelength Transport		X
Fiber Connection Express Wavelength Transport		X
Enterprise System Connection - Single Byte command code sets		X
Connection Wavelength Transport		

The general description of the Wavelength Channels is as shown below. Detailed transport specifications, capabilities and line rates are described in TR 73630 BT.

- 1.25 Gbps Transparent Transport - provides a fiber based transport interface
- 2.5 Gbps Transparent Transport - provides a fiber based transport interface
- 10G WAN-PHY Wavelength Transport - a version of Ethernet with a WAN-PHY only interface.
- 10G LAN-PHY Wavelength Transport - a version of Ethernet with a LAN-PHY only interface.
- OC-3 Wavelength Transport - provides fiber based synchronous optical full duplex data transmission capability and a transparent data communications channel.
- OC-12 Wavelength Transport - provides fiber based synchronous optical full duplex data transmission capability and a transparent data communications channel.

**Note 1:** For Basic Arrangements, the Gigabit Ethernet at 1 Gbps Wavelength Transport is available only as an Interoffice Channel for connecting a Wavelength service Dedicated Ring Arrangement to Fiber service, FiberRing service or to another Wavelength service Dedicated Ring Arrangement.

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## B9. OPTICAL NETWORK SERVICE

### B9.1 Wavelength Service (Cont'd)

#### B9.1.1 General (Cont'd)

##### D. (Cont'd)

- OC-48 Wavelength Transport - provides fiber based synchronous optical full duplex data transmission capability and a transparent data communications channel.
- OC-192 Wavelength Transport - provides fiber based synchronous optical full duplex data transmission capability and a transparent data communications channel.
- Enterprise Systems Connection / Single Byte command code sets Connection. SBCON is the industry standard.
- Fiber Channel 100 and Fiber Channel 200 Wavelength Transport - An industry standard protocol used to interconnect Storage Area Networks (SANs).
- Fast Ethernet Wavelength Transport - a version of Ethernet.
- Gigabit Ethernet (1 Gbps) Wavelength Transport - a version of Ethernet.

Company will install, test and verify that Wavelength Channels can be carried and transmitted from Company network interface to Company network interface. Wavelength service Wavelength Channels do not provide protocol functionality, they only provide a transport for the protocol.

- E. The compatibility requirements and technical specifications (including Channel Network Protection and Optical Network Protection) for Wavelength service are as shown in technical reference TR-73630 BT.
- F. Wavelength Channels with time delay sensitive protocols, as identified in TR 73630 BT, have facility length limitations and may not be available on some Wavelength service Dedicated Ring Arrangements, or may not be available between some nodes on certain Wavelength service Dedicated Ring Arrangements.
- G. The customer must provide suitable floor space, controlled environment, and source of non-switched suitable power to support this service.
- H. Where the customer provides two separate entrance facility cable routes Wavelength service, the primary and alternate facilities will be separate and will enter the customer location, at the initial installation of the service, over such different routes. Request for separate entrance facilities to a customer location, subsequent to installation of the service, shall be accommodated via a Special Construction request.
- I. Wavelength service provides physical layer transport only. The Company assumes no responsibility for the signals generated by the customer, for the quality of or defects in such signals, for the reception of signals by the customer, or address signaling, to the extent addressing is performed by the customer. Error detection and correction of data generated by the customer is the customer's responsibility.
- J. Wavelength Channels with time delay sensitive protocols, as identified in TR 73630 BT, have facility length limitations and may not be available on some Wavelength service Dedicated Ring Arrangements, or may not be available between some nodes on certain Wavelength service Dedicated Ring Arrangements.
- K. Neither electrical interfaces nor optical add/drop multiplexing are available with Wavelength service.
- L. The customer is responsible to ensure that customer provided CPE meets any applicable technical requirements or limitations for the protocol used for the connection to the Wavelength Service.
- M. Wavelength service Dedicated Ring Arrangement wavelength channels may connect to Fiber service or FiberRing service where Fiber service or FiberRing service interfaces are compatible with a wavelength channel.
- N. A Wavelength service Basic Arrangement Wavelength Interoffice Channel must have a connection to a Basic Arrangement Wavelength Local Channel, to a Wavelength service Dedicated Ring Arrangement wavelength channel or to Fiber service or FiberRing service where Fiber service or FiberRing service interfaces are compatible with a wavelength channel.
- O. When Wavelength service is requested at locations where fiber facilities are not available to satisfy customer requests, special construction charges will apply as set forth in Section B5., preceding.

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## B9. OPTICAL NETWORK SERVICE

### B9.1 Wavelength Service (Cont'd)

#### B9.1.1 General (Cont'd)

- P. For Wavelength service Dedicated Ring arrangements, Fast Ethernet at 100 Mbps and Gigabit Ethernet at 1 Gbps Wavelength Channels may be utilized as an alternate means or transport for a customer's Metro Ethernet service. The following table lists the Wavelength Channels available for use as an alternate means of transport and the respective compatible Metro Ethernet service Connections:

<b>Wavelength Dedicated Ring Arrangement Wavelength Channel</b>	<b>Metro Ethernet Connection</b>
Fast Ethernet at 100 Mbps	Basic 100 Mbps
Gigabit Ethernet at 1 Gbps	Basic 1000 Mbps
Fast Ethernet at 100 Mbps	Premium 10 Mbps, 20 Mbps and 50 Mbps (fixed and burst)
Fast Ethernet at 100 Mbps	Premium 100 Mbps (fixed) (provisioned via a physical 100 Mbps port)
Gigabit Ethernet at 1 Gbps	Premium 100 Mbps (fixed) (provisioned via a physical 1000 Mbps port)
Gigabit Ethernet at 1 Gbps	Premium 100 Mbps (burst)
Gigabit Ethernet at 1 Gbps	Premium 250 Mbps and 500 Mbps (fixed and burst)
Gigabit Ethernet at 1 Gbps	Premium 1000 Mbps (fixed)
Fast Ethernet at 100 Mbps	Virtual 10 Mbps, 20 Mbps, 50 Mbps and 80 Mbps
Fast Ethernet at 100 Mbps	Virtual 100 Mbps (provisioned via a physical 100 Mbps port)
Gigabit Ethernet at 1 Gbps	Virtual 100 Mbps (provisioned via a physical 1000 Mbps port)
Gigabit Ethernet at 1 Gbps	Virtual 200 Mbps, 300 Mbps, 450 Mbps, 600 Mbps 750 Mbps, 900 Mbps and 1000 Mbps

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## B9. OPTICAL NETWORK SERVICE

### B9.1 Wavelength Service (Cont'd)

#### B9.1.2 Application of Rates

- A. Wavelength service Basic Arrangement Wavelength Channels are available for point-to point applications between two customer premises or for connection of a customer's premises to his Wavelength service Dedicated Ring Arrangement in a telephone company central office. Wavelength service Basic Arrangement service components are a Wavelength Local Channel and Wavelength Interoffice Channel. The Wavelength Local Channel rate element provides service between a customer's premises and the local telephone company central office. The Wavelength Interoffice Channel rate element provides service between telephone company central offices.
- B. For Basic Arrangement Wavelength Channels with Channel Network Protection, two (2) Unprotected Wavelength Local Channels and/or Interoffice Channels are configured as primary and secondary wavelengths between a customer's premises. The primary and secondary wavelengths utilize Channel Network Protection - Primary Wavelength and Channel Network Protection - Secondary Wavelength service components to provide network protection and apply per customer premise requested with network protection.
- C. Wavelength service Dedicated Ring Arrangement service components are a Primary System, Expansion System, Dedicated Ring Wavelength Channels, Optical Signal Amplification Node and Monitoring Node. Primary System and Expansion System service components are further classified as Single Bay and Dual Bay, depending on the arrangement ordered by a customer. The Single Bay arrangement allows the customer to activate up to 16 wavelengths between adjacent Service Node locations. The Dual Bay arrangement allows the customer to activate up to 32 wavelengths between adjacent Service Node locations. The quantity of activated wavelengths is dependent upon a customer's application of Unprotected, Client Protected and/or Optical Network Protected Wavelength Channels. Optical Network Protected Wavelength Channels are available for transport between two (2) customer premise Service Node locations on a Dedicated Ring Arrangement or for transport between a customer premise Service Node location and a telephone company serving wire center Service Node where they may only connect to another Wavelength service Dedicated Ring Arrangement.
- D. Wavelengths are activated at Service Node locations on a Wavelength service Dedicated Ring Arrangement Single Bay arrangement via Primary System - Single Bay and Expansion System - Single Bay service component. The Primary System - Single Bay service component applies at each Service Node location on a customer's ring, and provides a the capability to activate up to 8 wavelengths east and west leaving a Service Node location. Once the capability of the Primary System - Single Bay service component is utilized, in order to activate additional wavelengths, an Expansion System - Single Bay service component is required at each Service Node location on the ring. The Expansion System - Single Bay service component provides the capability to activate up to 8 east and west wavelengths leaving a Service Node location. When a customer utilizes the wavelength capacity of a Primary System - Single Bay and Expansion System - Single Bay service arrangement, additional wavelengths may activated via another separate Wavelength service Dedicated Ring Arrangement Single Bay arrangement or a customer may convert a Single Bay arrangement to a Dual Bay arrangement. Conversions of a Single Bay arrangement to a Dual Bay arrangement will involve a service outage associate with wavelength channels for which service outage credits do not apply. The Single Bay service components and capacities per Service Node location on a ring are as follows:

#### Single Bay Capacities and Service Components Per Service Node Location

<u>Service Component</u>	<u>Wavelengths Per Service Component</u>
Primary System - Single Bay	8 East and 8 West
Expansion System - Single Bay	8 East and 8 West

For example, the Single Bay ring level service components, per Service Node location, for a customer that has a need for 15 east and west wavelength channels would be a Primary System - Single Bay and an Expansion System - Single Bay.

- E. Wavelengths are activated at Service Node locations on a Wavelength service Dedicated Ring Arrangement Dual Bay arrangement via Primary System - Dual Bay and Expansion System - Dual Bay service components. Two Primary System - Dual Bay service components apply per Service Node location in the dual bay configuration and have the capability to activate up to 8 east and west wavelengths leaving a Service Node location. Once the capability of the Primary System - Dual Bay service components are utilized, in order to activate additional wavelengths, Expansion System - Dual Bay service components are required at each Service Node location on the ring. A Dual Bay Expansion System is comprised of two (2) Expansion System - Dual Bay service components per Service Node location on a ring and provides the capability to activate up to 8 east and west leaving a Service Node location. Three (3) Dual Bay Expansion Systems may be added to Primary System - Dual Bay service components to provide the total capability of a Dual Bay service configuration.

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## B9. OPTICAL NETWORK SERVICE

### B9.1 Wavelength Service (Cont'd)

#### B9.1.2 Application of Rates (Cont'd)

##### E. (Cont'd)

The Dual Bay service components and capacities per Service Node location on a ring are further illustrated as follows:

<u>Dual Bay Capacities and Service Components Per Service Node Location</u>	
<u>Service Component</u>	<u>Wavelengths Per Service Component</u>
Primary System - Dual Bay (quantity of 2) (purchased in pairs)	8 East or 8 West
Expansion System - Dual Bay (quantity of 2) (purchased in pairs)	8 East or 8 West
Expansion System - Dual Bay (quantity of 2) (purchased in pairs)	8 East or 8 West
Expansion System - Dual Bay (quantity of 2) (purchased in pairs)	8 East or 8 West

For example, the Dual Bay ring level service components, per Service Node location, for a customer that has a need for 15 east and west wavelength channels would be two (2) Primary System - Dual Bay and two (2) Expansion System - Dual Bay. If the customer's requirements for wavelength channels increased to 17 east and west wavelength channels, two (2) additional Expansion System - Dual Bay service component would apply per Service Node location. In order to fully utilize the 32 east and west wavelength capability of this Dual Bay example, two (2) more Expansion System - Dual Bay service component would apply per Service Node location on the ring.

Wavelength service Dedicated Ring Arrangement Wavelength Channel rates and charges apply for the wavelengths activated between Service Node locations on the ring.

The Optical Signal Amplification Node applies per location requiring amplification to meet the services transmission requirements. Optical Signal Amplification Nodes will be specified on the service inquiry and billed accordingly.

F. In order to accommodate more flexible customer situations, Wavelength service arrangements are available under several payment plans: Month-to-Month, 36 Month Term Payment Plan (24-48 months), 60 Month Term Payment Plan (49-72 months), or 84 Month Term Payment Plan (73-96 months). The month-to-month service arrangement is only available upon completion of a Channel Services Payment Plan agreement. The 36, 60, and 84 Month Term Payment Plans are provided under conditions specified in the Channel Services Payment Plan, (CSPP), B2.4.9 preceding, except as modified following. For all payment plans, the following regulations apply:

1. All Primary System and Expansion System rate elements associated with a Wavelength service Dedicated Ring Arrangement, whether ordered initially or subsequent to the initial installation, must be provided under the same CSPP payment plan with the same service period and are coterminous upon disconnect of the Wavelength service.
2. The minimum service period for Wavelength service components is 24 months.
3. Wavelength service wavelength channels must initially be provided under a CSPP service arrangement. Wavelength service wavelength channels associated with a Wavelength service Dedicated Ring Arrangement are not required to be under the same CSPP payment plan or service period as their associated Company Wavelength service Dedicated Ring Arrangement
4. The rates applicable to a month-to-month payment plan are subject to Company initiated changes.
5. A termination liability charge will be applicable if services provided under a CSPP arrangement are disconnected prior to the end of the chosen service period. The applicable charge is equal to the number of months remaining in the rate stabilized service period times fifty percent (50%) of the monthly rates for Wavelength service which include all service components under the CSPP arrangement.
6. When a service period under an existing CSPP arrangement is completed and a customer elects to revert to a month-to-month payment option, no minimum period is applicable. If the customer does not select a new payment period or does not request discontinuance of service, service will be continued under the terms specified in B2.4 of this Tariff.
7. Each Wavelength service Basic Arrangement wavelength channel is an individual standalone payment plan, independent of any other Wavelength service payment plan subscribed to by a customer.

G. When Wavelength Channels are setup in a Client Protection arrangement, there is no charge for establishing Client Protection if it is setup at the time the associated Wavelength Channels are activated. If Client Protection is established on Wavelength Channels subsequent to their activation, a Client Protection Rearrangement Charge applies per existing Wavelength Channel configured for Client Protection. This charge would also apply if a customer has Client Protection existing and wants to rearrange the Wavelength Channels associated with the existing Client Protection arrangement. Also, if a customer removes channels from an existing Client Protection arrangement, the Client Protection Rearrangement Charge applies to the Wavelength Channel(s) that are removed from the Client Protection arrangement, unless both the Wavelength Channels are disconnected.

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## B9. OPTICAL NETWORK SERVICE

### B9.1 Wavelength Service (Cont'd)

#### B9.1.3 Rates and Charges

##### A. Wavelength service Basic Arrangement

##### 1. Wavelength Local Channel

		Nonrecurring Charge	Month to Month	24 to 48 Months	49 to 72 Months	73 to 96 Months	USOC
(a)	Per 1.25 Gbps Transparent Transport Unprotected	\$1,000.00	\$2,085.00	\$1,605.00	\$1,395.00	\$1,215.00	W32BA
(b)	Per 2.5 Gbps Transparent Transport Unprotected	1,000.00	3,570.00	2,975.00	2,590.00	2,250.00	W32BC
(c)	Per OC-3 Wavelength Transport Unprotected	1,000.00	1,645.00	1,265.00	1,098.00	955.00	W32B1
(d)	Per OC-12 Wavelength Transport Unprotected	1,000.00	2,085.00	1,605.00	1,395.00	1,215.00	W32B3
(e)	Per OC-48 Wavelength Transport Unprotected	1,000.00	3,570.00	2,975.00	2,590.00	2,250.00	W32B5
(f)	Per OC-192 Wavelength Transport Unprotected	1,500.00	7,495.00	6,250.00	5,430.00	4,725.00	W32BE
(g)	Per 10 Gbps WAN Wavelength Transport Unprotected	1,500.00	7,495.00	6,250.00	5,430.00	4,725.00	W32BG

##### 2. Wavelength Interoffice Channel

(a)	Per 1.25 Gbps Transparent Transport Unprotected	1,000.00	4,390.00	3,375.00	2,934.00	2,550.00	W32BJ
(b)	Per 2.5 Gbps Transparent Transport Unprotected	1,000.00	4,660.00	4,050.00	3,520.00	3,060.00	W32BL
(c)	Per OC-3 Wavelength Transport Unprotected	1,000.00	3,380.00	2,600.00	2,260.00	1,965.00	W32BR
(d)	Per OC-12 Wavelength Transport Unprotected	1,000.00	4,390.00	3,375.00	2,934.00	2,550.00	W32BT
(e)	Per OC-48 Wavelength Transport Unprotected	1,000.00	4,660.00	4,050.00	3,520.00	3,060.00	W32BV
(f)	Per OC-192 Wavelength Transport Unprotected	1,500.00	6,060.00	5,270.00	4,580.00	3,980.00	W32BN
(g)	Per 10 Gbps WAN Wavelength Transport Unprotected	1,500.00	6,060.00	5,270.00	4,580.00	3,980.00	W32BP
(h)	Per Gigabit Ethernet at 1 Gbps Wavelength Transport Unprotected	1,000.00	3,470.00	2,670.00	2,345.00	2,040.00	W32BX

##### 3. Channel Network Protection<sup>1</sup>

(a)	Per Primary Wavelength	300.00	535.00	355.00	285.00	250.00	W32PP
(b)	Per Secondary Wavelength	300.00	535.00	355.00	285.00	250.00	W32PS

**Note 1:** Channel Network Protection Primary Wavelength and Secondary Wavelength service components apply per Wavelength service Basic Arrangement Wavelength Local Channel, per customer premises configured with Channel Network Protection.

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## B9. OPTICAL NETWORK SERVICE

### B9.1 Wavelength Service (Cont'd)

#### B9.1.3 Rates and Charges (Cont'd)

##### B. Wavelength service Dedicated Ring Arrangement

##### 1. Primary System

		<b>Nonrecurring Charge</b>	<b>Month to Month</b>	<b>24 to 48 Months</b>	<b>49 to 72 Months</b>	<b>73 to 96 Months</b>	<b>USOC</b>
(a)	Per Primary System - Single Bay <sup>1</sup>	\$2,000.00	\$7,180.00	\$5,525.00	\$4,695.00	\$3,990.00	W32RA
(b)	Per Primary System - Dual Bay <sup>1</sup>	3,000.00	3,775.00	2,905.00	2,525.00	2,195.00	W32RB
2.	Expansion System						
(a)	Per Expansion System - Single Bay <sup>1</sup>	1,500.00	2,795.00	2,150.00	1,870.00	1,625.00	W32RC
(b)	Per Expansion System - Dual Bay <sup>1</sup>	2,000.00	1,365.00	1,050.00	910.00	790.00	W32RD
3.	Wavelength Channel						
(a)	Per 1.25 Gbps Transparent Transport Unprotected	2,000.00	3,480.00	2,675.00	2,325.00	2,000.00	W32DA
(b)	Per 2.5 Gbps Transparent Transport Unprotected	2,500.00	6,210.00	4,775.00	4,150.00	3,610.00	W32DC
(c)	Per 10 Gbps WAN Wavelength Transport Unprotected	3,000.00	11,690.00	8,990.00	7,820.00	6,800.00	W32DE
(d)	Per 10 Gbps LAN Wavelength Transport Unprotected	3,000.00	11,690.00	8,990.00	7,820.00	6,800.00	W32DG
(e)	Per OC-3 Wavelength Transport Unprotected	2,000.00	3,035.00	2,020.00	1,760.00	1,530.00	W32DJ
(f)	Per OC-12 Wavelength Transport Unprotected	2,000.00	3,480.00	2,675.00	2,325.00	2,000.00	W32DL
(g)	Per OC-48 Wavelength Transport Unprotected	2,500.00	6,210.00	4,775.00	4,150.00	3,610.00	W32DN
(h)	Per OC-192 Wavelength Transport Unprotected	3,000.00	11,690.00	8,990.00	7,820.00	6,800.00	W32DP
(i)	Per Gigabit Ethernet at 1 Gbps Wavelength Transport Unprotected	2,000.00	3,115.00	2,395.00	2,085.00	1,800.00	W32DR
(j)	Per Fiber Channel 100 Wavelength Transport Unprotected	2,000.00	3,115.00	2,395.00	2,085.00	1,800.00	W32DT
(k)	Per Fiber Channel 200 Wavelength Transport Unprotected	2,500.00	5,590.00	4,300.00	3,740.00	3,250.00	W32DV
(l)	Per Fast Ethernet at 100 Mbps Wavelength Transport Unprotected	2,000.00	1,695.00	1,305.00	1,135.00	990.00	W32DX
(m)	Per Fiber Connection Channel Wavelength Transport Unprotected	2,000.00	3,115.00	2,395.00	2,085.00	1,800.00	W32DZ
(n)	Per Fiber Connection Express Channel Wavelength Transport Unprotected	2,500.00	5,590.00	4,300.00	3,740.00	3,250.00	W32D2
(o)	Per Enterprise System Connection - SBCON Channel Wavelength Transport Unprotected	2,000.00	1,760.00	1,355.00	1,175.00	1,025.00	W32D4

**Note 1:** See B9.1.2C and B9.1.2D preceding for the rate application per Service Node location on a Wavelength service Dedicated Ring Arrangement.

## B9. OPTICAL NETWORK SERVICE

### B9.1 Wavelength Service (Cont'd)

#### B9.1.3 Rates and Charges (Cont'd)

##### B. Wavelength service Dedicated Ring Arrangement (Cont'd)

##### 3. Wavelength Channel (Cont'd)

		Nonrecurring Charge	Month to Month	24 to 48 Months	49 to 72 Months	73 to 96 Months	USOC
(p)	Per 1.25 Gbps Transparent Transport Optical Network Protected <sup>1</sup>	\$2,000.00	\$5,916.00	\$4,548.00	\$3,953.00	\$3,400.00	W32DB
(q)	Per 2.5 Gbps Transparent Transport Optical Network Protected <sup>1</sup>	2,500.00	10,557.00	8,118.00	7,055.00	6,137.00	W32DD
(r)	Per 10 Gbps WAN Wavelength Transport Optical Network Protected <sup>1</sup>	3,000.00	19,873.00	15,283.00	13,294.00	11,560.00	W32DF
(s)	Per 10 Gbps LAN Wavelength Transport Optical Network Protected <sup>1</sup>	3,000.00	19,873.00	15,283.00	13,294.00	11,560.00	W32DH
(t)	Per OC-3 Wavelength Transport Optical Network Protected <sup>1</sup>	2,000.00	5,160.00	3,434.00	2,992.00	2,601.00	W32DK
(u)	Per OC-12 Wavelength Transport Optical Network Protected <sup>1</sup>	2,000.00	5,916.00	4,548.00	3,953.00	3,400.00	W32DM
(v)	Per OC-48 Wavelength Transport Optical Network Protected <sup>1</sup>	2,500.00	10,557.00	8,118.00	7,055.00	6,137.00	W32DO
(w)	Per OC-192 Wavelength Transport Optical Network Protected <sup>1</sup>	3,000.00	19,873.00	15,283.00	13,294.00	11,560.00	W32DQ
(x)	Per Gigabit Ethernet at 1 Gbps Wavelength Transport Optical Network Protected <sup>1</sup>	2,000.00	5,296.00	4,072.00	3,545.00	3,060.00	W32DS
(y)	Per Fiber Channel 100 Wavelength Transport Optical Network Protected <sup>1</sup>	2,000.00	5,296.00	4,072.00	3,545.00	3,060.00	W32DU
(z)	Per Fiber Channel 200 Wavelength Transport Optical Network Protected <sup>1</sup>	2,500.00	9,503.00	7,310.00	6,358.00	5,525.00	W32DW
(aa)	Per Fast Ethernet at 100 Mbps Wavelength Transport Optical Network Protected <sup>1</sup>	2,000.00	2,882.00	2,219.00	1,930.00	1,683.00	W32DY
(ab)	Per Fiber Connection Channel Wavelength Transport Optical Network Protected <sup>1</sup>	2,000.00	5,296.00	4,072.00	3,545.00	3,060.00	W32D1
(ac)	Per Fiber Connection Express Channel Wavelength Transport Optical Network Protected <sup>1</sup>	2,500.00	9,503.00	7,310.00	6,358.00	5,525.00	W32D3
(ad)	Per Enterprise System Connection - SBCON Channel Wavelength Transport Optical Network Protected <sup>1</sup>	2,000.00	2,992.00	2,304.00	1,998.00	1,743.00	W32D5

##### 4. Amplification

(a)	Optical Signal Amplification Node, Per Node	2,000.00	3,440.00	2,645.00	2,300.00	2,000.00	W32RE
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##### C. Wavelength service Client Protection Rearrangement Charge

(a)	Client Protection Rearrangement Charge Subsequent to initial installation	1,500.00	-	-	-	-	CPROT
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**Note 1:** Optical Network Protected Wavelength Channels are available for transport between two (2) customer premise Service Node locations on a Dedicated Ring Arrangement or for transport between a customer premise Service Node location and a telephone company serving wire center Service Node where they may connect to another Wavelength service Dedicated Ring Arrangement or to Company Wavelength service Basic Arrangement Unprotected wavelength channels that are not configured with Channel Network Protection.